

Computer Science & Engineering • Embedded Systems • Secure Software • Computer Architecture
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Education

Master of Science Computer Engineering — University of California, Riverside (2025 – Expected June 2027)
GPA: 4.00/4.00

Bachelor of Science Computer Science with Business Applications — University of California, Riverside (2022)
GPA: 3.28/4.00

Transferable Coursework Computer Science – Crafton Hills College (2016 – 2018)
GPA: 3.58/4.00

Transferable Coursework Computer Science – Moreno Valley College (2015)
GPA: 3.43/4.00

Publications

Professional Experience

Teaching Experience

Professional Certifications

Cybersecurity

Google Cybersecurity Professional Certificate — Google, 2026
Certified Information Systems Security Professional (CISSP) Exam Prep — Infosec, 2025
Cybersecurity Risk Management Framework — Infosec, 2025
Cybersecurity Leadership and Management — Infosec, 2025
Computer Forensics — Infosec, 2025
Cyber Incident Response — Infosec, 2025
Advanced Python Scripting for Cybersecurity — Infosec, 2025
Python for Cybersecurity — Infosec, 2025
JavaScript Security — Infosec, 2025
Cybersecurity Foundations — Infosec, 2025

Embedded Systems

Raspberry Pi Projects — Johns Hopkins University, 2025

Algorithms and Data Structures

Algorithms Specialization — Stanford University, 2026

Artificial Intelligence

Google AI Essentials — Google, 2025
Introduction to Generative AI Learning Path — Google Cloud, 2025

Data Analytics

Google Data Analytics — Google, 2025

Mathematics

Linear Algebra from Elementary to Advanced — Johns Hopkins University, 2025
Integral Calculus through Data and Modeling — Johns Hopkins University, 2025
Differential Calculus through Data and Modeling — Johns Hopkins University, 2025
Algebra: Elementary to Advanced — Johns Hopkins University, 2025
Precalculus through Data and Modeling — Johns Hopkins University, 2025

Physics

Physics of Waves and Optics Specialization — Rice University, 2026
Introduction to Electricity and Magnetism — Rice University, 2026
Introduction to Mechanics — Rice University, 2026

Engineering

Sensors for a Carbon Free World Specialization — University of Colorado Boulder, 2026
Rocket Science 101 — University of Michigan, 2025

Information Technology

Master Microsoft Office 365 and Power Platform — Microsoft, 2025
Microsoft 365 Fundamentals — Microsoft, 2025

Safety

Chemical Hazards and Process Safety — University of California, Davis, 2026

Project Management

Google Project Management — Google, 2025

Finance

Finance & Quantitative Modeling for Analysts — University of Pennsylvania, 2025

Business and Management

Introduction to Business Strategy Specialization — Harvard Business School, 2026
Introduction to Leadership Principles Specialization — Harvard Business School, 2026

Business and Law

European Business Law — Lund University, 2025

Healthcare IT

Healthcare IT Support — Johns Hopkins University, 2025

Healthcare

Clinical Trials Operations Specialization — Johns Hopkins University, 2026
Medical Terminology Specialization — Rice University, 2026
Cancer Biology — Johns Hopkins University, 2025
Drug Development Product Management — University of California, San Diego, 2025
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Test Scores

Selected Projects

- Designed and built an embedded arcade system integrating an SNES controller, ST7735R SPI display, dual MAX7219 LED matrices, and dual-buzzer audio.
- Implemented cooperative task scheduling and timer-driven execution for input, enemy behavior, collision detection, graphics, scoring, lives, and audio.
- Recognized by the instructor as among the three best video-game projects evaluated during the previous six years.

Patents & Inventions

Service and Leadership

Additional Professional Certifications

Selected Open Source Contributions

Awards

Best Creative Project Award

Fish Blastar

2017

Crafton Hills College

Books & Monographs

Foreign Languages

Course Certificates

Cybersecurity

NIST DoD RMF — Infosec, 2025

NIST 800-171 — Infosec, 2025

NIST CSF — Infosec, 2025

Cryptography I — Stanford University, 2026

Cybersecurity Threat Vectors and Mitigation — Microsoft, 2026

Azure Cybersecurity Solutions and Microsoft Defender — Microsoft, 2026

Copilot for Cybersecurity — Microsoft, 2026

CISSP Domain 3: Security Architecture and Engineering — Infosec, 2025

CISSP Domain 8: Software Development Security — Infosec, 2025

CISSP Domain 4: Communication and Network Security — Infosec, 2025

CISSP Domain 1: Security and Risk Management — Infosec, 2025

CISSP Domain 7: Security Operations — Infosec, 2025

CISSP Domain 6: Security Assessment and Testing — Infosec, 2025

CISSP Domain 5: Identity and Access Management (IAM) — Infosec, 2025

CISSP Domain 2: Asset Security — Infosec, 2025

Cyber Threat Hunting — Infosec, 2025

Digital Forensics Concepts — Infosec, 2025

Windows Registry Forensics — Infosec, 2025

Windows OS Forensics — Infosec, 2025

Technical Deep Dive with Incident Response Tools — Infosec, 2025

Cyber Incident Response — Infosec, 2025

Stages of Incident Response — Infosec, 2025

Assets, Threats, and Vulnerabilities — Google, 2026

Sound the Alarm: Detection and Response — Google, 2026
Connect and Protect: Networks and Network Security — Google, 2025
Tools of the Trade: Linux and SQL — Google, 2026
Automate Cybersecurity Tasks with Python — Google, 2026
Play It Safe: Manage Security Risks — Google, 2025
Foundations of Cybersecurity — Google, 2025
Introduction to Cybersecurity Tools & Cyberattacks — IBM, 2025
Introduction to Cybersecurity Essentials — IBM, 2025
Establishing Command-and-Control and Finding Credentials — Infosec, 2025
Execution, Persistence, Privilege Escalation and Evasion — Infosec, 2025
Credential Access, Discovery, Lateral Movement & Collection — Infosec, 2025
Python for Command-and-Control, Exfiltration and Impact — Infosec, 2025
Advanced Python - Reconnaissance — Infosec, 2025
Python for Active Defense — Infosec, 2025
Defensive Python — Infosec, 2025
Introduction to Python for Cybersecurity — Infosec, 2025
Cybersecurity Policy Foundations — Infosec, 2025
Governance and Strategy — Infosec, 2025
Leadership — Infosec, 2025
Management — Infosec, 2025
Operating System Foundations — Infosec, 2025
Introduction to Cybersecurity Foundations — Infosec, 2025
JavaScript Security Part 1 — Infosec, 2025
JavaScript Security Part 2 — Infosec, 2025
JavaScript Security Part 3 — Infosec, 2025
JavaScript Security Refreshers — Infosec, 2025
Put It to Work: Prepare for Cybersecurity Jobs — Google, 2025
Introduction to Cybersecurity Careers — IBM, 2025

Embedded Systems

Communications and High-Speed Signals with Raspberry Pi — Johns Hopkins University, 2025
Designing Hardware for Raspberry Pi Projects — Johns Hopkins University, 2025
Using Sensors With Your Raspberry Pi — Johns Hopkins University, 2025
Beginning Custom Projects with Raspberry Pi — Johns Hopkins University, 2025

High-Performance Computing

AI Infrastructure and Operations Fundamentals — NVIDIA, 2026
The Fundamentals of RDMA Programming — NVIDIA, 2026

Algorithms and Data Structures

Divide and Conquer, Sorting and Searching, and Randomized Algorithms — Stanford University, 2026
Graph Search, Shortest Paths, and Data Structures — Stanford University, 2026
Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming — Stanford University, 2026
Shortest Paths Revisited, NP-Complete Problems and What To Do About Them — Stanford University, 2026

Software Development

Version Control — Meta, 2025
Introduction to Git and GitHub — Google, 2025
Coding Interview Preparation — Meta, 2025

Programming

Programming Fundamentals in Kotlin — Meta, 2026
Automating Real-World Tasks with Python — Google, 2025

Artificial Intelligence

Fundamentals of Machine Learning for Healthcare — Stanford University, 2026
Introduction to Artificial Intelligence (AI) — IBM, 2026
The Nuts and Bolts of Machine Learning — Google, 2025
Introduction to Large Language Models — Google Cloud, 2025
Responsible AI: Applying AI Principles with Google Cloud — Google Cloud, 2025
Generative AI: Prompt Engineering Basics — IBM, 2025
Generative AI: Introduction and Applications — IBM, 2025
Introduction to Generative AI — Google Cloud, 2025
Introduction to Responsible AI — Google Cloud, 2025
Use AI Responsibly — Google, 2025
Introduction to AI — Google, 2025
Discover the Art of Prompting — Google, 2025
Introduction to Microsoft 365 Copilot — Microsoft, 2025
Maximize Productivity With AI Tools — Google, 2025
Stay Ahead of the AI Curve — Google, 2025
Accelerate Your Job Search with AI — Google, 2025

Cloud Computing

Architecting Solutions on AWS — Amazon Web Services, 2026
Modern Data Warehouse Analytics in Microsoft Azure — Microsoft, 2026
Introduction to Microsoft Azure Cloud Services — Microsoft, 2026
Microsoft Azure SQL — Microsoft, 2026
Configuration Management and the Cloud — Google, 2025

Data Science

Data Science Math Skills — Duke University, 2026
Python for Data Science, AI & Development — IBM, 2025
Foundations of Data Science — Google, 2025
What is Data Science? — IBM, 2025
Data Scientist Career Guide and Interview Preparation — IBM, 2025

Data Analytics

Google Data Analytics Capstone: Complete a Case Study — Google, 2025
Data Analysis with R Programming — Google, 2025
Process Data from Dirty to Clean — Google, 2025
Analyze Data to Answer Questions — Google, 2025
Prepare Data for Exploration — Google, 2025
Share Data Through the Art of Visualization — Google, 2025
Ask Questions to Make Data-Driven Decisions — Google, 2025
Foundations: Data, Data, Everywhere — Google, 2025

Mathematics

Game Theory — Stanford University, 2026
Game Theory II: Advanced Applications — Stanford University, 2026
Introduction to Mathematical Thinking — Stanford University, 2026
Matrix Algebra for Engineers — The Hong Kong University of Science and Technology, 2025
Linear Algebra: Orthogonality and Diagonalization — Johns Hopkins University, 2025
Linear Algebra: Matrix Algebra, Determinants, & Eigenvectors — Johns Hopkins University, 2025
Linear Algebra: Linear Systems and Matrix Equations — Johns Hopkins University, 2025
Combinatorics and Probability — University of California, San Diego, 2025
Calculus through Data & Modelling: Vector Calculus — Johns Hopkins University, 2025
Calculus through Data & Modelling: Series and Integration — Johns Hopkins University, 2025
Calculus through Data & Modelling: Integration Applications — Johns Hopkins University, 2025
Calculus through Data & Modelling: Techniques of Integration — Johns Hopkins University, 2025
Calculus through Data & Modeling: Applying Differentiation — Johns Hopkins University, 2025
Calculus through Data & Modeling: Differentiation Rules — Johns Hopkins University, 2025
Calculus through Data & Modeling: Limits & Derivatives — Johns Hopkins University, 2025

Precalculus: Mathematical Modeling — Johns Hopkins University, 2025
Precalculus: Periodic Functions — Johns Hopkins University, 2025
Precalculus: Relations and Functions — Johns Hopkins University, 2025
Algebra: Elementary to Advanced - Functions & Applications — Johns Hopkins University, 2025
Algebra: Elementary to Advanced - Polynomials and Roots — Johns Hopkins University, 2025
Algebra: Elementary to Advanced - Equations & Inequalities — Johns Hopkins University, 2025
Calculus through Data & Modeling: Precalculus Review — Johns Hopkins University, 2025

Statistics

Mathematical Biostatistics Boot Camp 1 — Johns Hopkins University, 2025
Introduction to Statistics — Stanford University, 2026

Psychology

Introduction to Psychology — Yale University, 2026

Physics

Understanding Einstein: The Special Theory of Relativity — Stanford University, 2026
Quantum Mechanics — University of Colorado Boulder, 2026
Physics of Light and Materials — Rice University, 2026
Physics of Geometrical and Physical Optics — Rice University, 2026
Physics of Oscillators and Waves — Rice University, 2026
Statistical Thermodynamics: Molecules to Machines — Carnegie Mellon University, 2026
Ideal Gases — University of Colorado Boulder, 2026
Electrodynamics: An Introduction — Korea Advanced Institute of Science and Technology (KAIST), 2025
Physics 102 - AC Circuits and Maxwell's Equations — Rice University, 2026
Physics 102 - Magnetic Fields and Faraday's Law — Rice University, 2026
Physics 102 - Electric Charges and Fields — Rice University, 2026
Physics 102 - Electric Potential and DC Circuits — Rice University, 2026
Physics 101 - Rotational Motion and Gravitation — Rice University, 2026
Physics 101 - Energy and Momentum — Rice University, 2026
Physics 101 - Forces and Kinematics — Rice University, 2026

Astronomy

The Evolving Universe — Caltech, 2026
The Science of the Solar System — Caltech, 2026

Environmental Science

Tropical Forest Landscapes 101: Conservation & Restoration — Yale University, 2026

Engineering

Solar Power Sensors — University of Colorado Boulder, 2026
Wind Turbine Sensors — University of Colorado Boulder, 2026
Electric Vehicle Sensors — University of Colorado Boulder, 2026
Recent Advances in Freeform Electronics — Yonsei University, 2026
Mechanical Vibration — Korea Advanced Institute of Science and Technology (KAIST), 2026
The Basics of Rocket Science — University of Michigan, 2025
Rocket Science in Everyday Life — University of Michigan, 2025
Rocket Science for Everyone — Yale University, 2025
The History of Rocket Science — University of Michigan, 2025

Information Technology

Operating Systems and You: Becoming a Power User — Google, 2025
Introduction to Networking — NVIDIA, 2026
The Bits and Bytes of Computer Networking — Google, 2025
Troubleshooting and Debugging Techniques — Google, 2025
Use Power Platform for Custom & Automated Solutions — Microsoft, 2025
Power BI & Power Virtual Agents — Microsoft, 2025
Introduction to Microsoft Power Platform — Microsoft, 2025
Technical Support Fundamentals — Google, 2025

The PL-900 Practice Exam — Microsoft, 2025
Work Smarter with Microsoft Excel — Microsoft, 2025
Work Smarter with Microsoft PowerPoint — Microsoft, 2025
Work Smarter with Microsoft Word — Microsoft, 2025

Safety

Introduction to Process Safety and Risk Analysis — University of California, Davis, 2026
Fire and Explosion Hazards Analysis — University of California, Davis, 2026
Predictive Models for Toxic Chemical Releases — University of California, Davis, 2026
Chemical Hazards: Toxicology & Reactivity — University of California, Davis, 2026

Project Management

Capstone: Applying Project Management in the Real World — Google, 2025
Agile Project Management — Google, 2025
Project Execution: Running the Project — Google, 2025
Project Planning: Putting It All Together — Google, 2025
Project Initiation: Starting a Successful Project — Google, 2025
Project Management: The Basics for Success — University of California, Irvine, 2025
Foundations of Project Management — Google, 2025

Product Management

Product Management: An Introduction — IBM, 2025

Finance

Risk Management and Financial Theory — Duke University, 2026
Investment Evaluation — Duke University, 2026
Financial Statements — Duke University, 2026
Fundamentals of Quantitative Modeling — University of Pennsylvania, 2025
Behavioral Finance — Duke University, 2026
Modeling Risk and Realities — University of Pennsylvania, 2025
Decision-Making and Scenarios — University of Pennsylvania, 2025
Introduction to Spreadsheets and Models — University of Pennsylvania, 2025
Financial Acumen for Non-Financial Managers — University of Pennsylvania, 2025
Fundamentals of Finance — University of Pennsylvania, 2025
Introduction to Corporate Finance — University of Pennsylvania, 2025
Introduction to Financial Accounting — University of Pennsylvania, 2025
Finance for Non-Financial Professionals — University of California, Irvine, 2025

Economics

Microeconomics: The Power of Markets — University of Pennsylvania, 2026
Microeconomics: When Markets Fail — University of Pennsylvania, 2026

Business and Management

Organizational Analysis — Stanford University, 2026
Introduction to Operations Management — University of Pennsylvania, 2026
Introduction to Marketing — University of Pennsylvania, 2026
Creating Customer Value — Harvard Business School, 2026
Building Competitive Advantage — Harvard Business School, 2026
Becoming an Effective Leader — Harvard Business School, 2026
Leading High-Performing Teams — Harvard Business School, 2026
Building Psychological Safety in Teams — Harvard Business School, 2026
Managing Social and Human Capital — University of Pennsylvania, 2026
Business Value Creation — Duke University, 2026
Effective Problem-Solving and Decision-Making — University of California, Irvine, 2025
Fundamentals of Management — University of California, Irvine, 2025
The Art of Negotiation — University of California, Irvine, 2025
High-Impact Business Writing — University of California, Irvine, 2025
Communication in the 21st Century Workplace — University of California, Irvine, 2025
Time Management for Personal & Professional Productivity — University of California, Irvine, 2025

Business and Law

American Contract Law I — Yale University, 2026
European Business Law: Doing Business in Europe — Lund University, 2025
European Business Law: Competing in Europe — Lund University, 2025
European Business Law: Understanding the Fundamentals — Lund University, 2025

Political Science

Moral Foundations of Politics — Yale University, 2026

Healthcare IT

Healthcare Data Security, Privacy, and Compliance — Johns Hopkins University, 2025
Health Information Technology Fundamentals — Johns Hopkins University, 2025
Operations and Patient Safety for Healthcare IT Staff — Johns Hopkins University, 2025
The Critical Role of IT Support Staff in Healthcare — Johns Hopkins University, 2025

Healthcare

Introduction to Clinical Data — Stanford University, 2026
Medical Neuroscience — Duke University, 2026
Medical Terminology I — Rice University, 2026
Medical Terminology II — Rice University, 2026
Medical Terminology III — Rice University, 2026
Clinical Trials Management and Advanced Operations — Johns Hopkins University, 2026
Clinical Trials Data Management and Quality Assurance — Johns Hopkins University, 2026
Clinical Trials Analysis, Monitoring, and Presentation — Johns Hopkins University, 2026
Design and Conduct of Clinical Trials — Johns Hopkins University, 2026
Introduction to the Biology of Cancer — Johns Hopkins University, 2025
Understanding Cancer Metastasis — Johns Hopkins University, 2025
Drug Discovery — University of California, San Diego, 2025
Drug Development — University of California, San Diego, 2025
Understanding Prostate Cancer — Johns Hopkins University, 2025
Drug Commercialization — University of California, San Diego, 2025
Intellectual Property in the Healthcare Industry — University of Pennsylvania, 2025
U.S. Health Law Fundamentals — University of Pennsylvania, 2025
Comparative Health Systems — University of Pennsylvania, 2025

Health and Nutrition

Introduction to Food and Health — Stanford University, 2026

Web Design

Web Design: Wireframes to Prototypes — California Institute of the Arts, 2025
Visual Elements of User Interface Design — California Institute of the Arts, 2025