

EDUCATION

Stanford University

2019-09-01 — 2023-06-01

Bachelor of Science | Physics and Computer Science | GPA: **3.9/4.0**

Stanford, CA

- *Selected coursework:* Data Structures, Algorithms, Operating Systems, Computer Networks, Quantum Mechanics, Linear Algebra, Machine Learning, Multivariable Calculus

University of California, Berkeley

2023-08-01 — 2025-05-01

Master of Science | Computer Science | GPA: **4.0/4.0**

Berkeley, CA

- *Selected coursework:* Advanced Machine Learning, Distributed Systems, Cryptography, Artificial Intelligence, Database Systems, Convex Optimization, Natural Language Processing, Computer Vision

WORK

Microsoft

2023-05-15 — 2023-08-15

Software Engineer Intern | Azure Cloud Services Team

Redmond, WA

- Developed a distributed caching solution for Azure Functions, reducing cold start latency by 30% and improving overall performance for serverless applications.
- Implemented a monitoring dashboard using Power BI to visualize key performance metrics, enabling proactive issue detection and resolution.
- Collaborated with a team of engineers to refactor legacy code, improving maintainability and reducing technical debt by 25%.
- Contributed to the design and development of a new API gateway, enhancing scalability and security for cloud-based applications.
- Presented project outcomes to senior engineers and received commendation for delivering impactful solutions under tight deadlines.

Amazon

2022-06-01 — 2022-09-01

Software Development Engineer Intern | Alexa Smart Home Team

Seattle, WA

- Designed and implemented a feature to integrate third-party smart home devices with Alexa, increasing compatibility by 20%.
- Optimized voice recognition algorithms, reducing error rates by 15% and improving user satisfaction.
- Developed automated testing frameworks to ensure the reliability of new integrations, achieving 90% test coverage.
- Worked closely with product managers to define feature requirements and deliver a seamless user experience.
- Participated in code reviews and contributed to team-wide best practices for software development.

Tesla

2021-06-01 — 2021-08-31

Software Engineer Intern | Autopilot Software Team

Palo Alto, CA

- Developed and tested computer vision algorithms for lane detection, improving accuracy by 25% in challenging driving conditions.
- Enhanced the performance of real-time object detection systems, reducing processing latency by 10%.
- Collaborated with hardware engineers to optimize sensor data processing pipelines for autonomous vehicles.
- Conducted extensive simulations to validate new features, ensuring compliance with safety standards.
- Documented technical findings and contributed to research papers on advancements in autonomous driving technology.

PROJECTS

Hyperschedule

2022-01-01 — 2023-06-01

Individual Contributor | *Maintainer*

Developed and maintained an open-source scheduling tool used by students across the Claremont Consortium, leveraging TypeScript, React, and MongoDB.

- Implemented new features such as course filtering and schedule sharing, improving user experience and engagement.
- Collaborated with a team of contributors to address bugs and optimize performance, reducing load times by 40%.
- Coordinated with college administrators to ensure accurate and timely release of course data.

Claremont Colleges Course Registration

2021-09-01 — 2022-12-01

Individual Contributor | *Maintainer*

[Source code](#)

Contributed to the development of a course registration platform for the Claremont Colleges, streamlining the enrollment process for thousands of students.

- Designed and implemented a user-friendly interface for course selection, increasing adoption rates by 25%.
- Optimized backend systems to handle peak traffic during registration periods, ensuring system stability.
- Provided technical support and documentation to assist users and administrators with platform usage.

VOLUNTEERING

Bay Area Homeless Shelter

2023-01-01 — 2023-05-01

Volunteer Coordinator

Bay Area, CA

Coordinated volunteer efforts to support homeless individuals in the Bay Area, providing essential services and resources.

- Managed a team of 20+ volunteers to organize weekly meal services
- Collaborated with a team of volunteers to sort and package food donations, ensuring efficient distribution to partner agencies.
- Participated in community education initiatives, promoting awareness of food insecurity and available resources.

Stanford University

2023-06-01 — 2023-09-01

Volunteer Tutor

Stanford, CA

Provided tutoring support to high school students in mathematics and science subjects, fostering academic growth and confidence.

- Developed personalized lesson plans and study materials to address individual student needs.
- Facilitated group study sessions, encouraging collaboration and peer learning.
- Received positive feedback from students and parents for effective teaching methods and dedication to student success.

AWARDS

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|--|------------|
| • Best Student Award - Awarded by Stanford University | 2023-05-01 |
| • Dean's List - Awarded by Stanford University | 2023-05-01 |
| Achieved Dean's List status for maintaining a GPA of 3.9 or higher. | |
| • Outstanding Research Assistant | 2023-05-01 |
| Recognized for exceptional contributions to research projects in the Physics and Computer Science departments. | |
| • Best Paper Award - Awarded by University of California, Berkeley | 2023-05-01 |
| Received Best Paper Award at the UC Berkeley Graduate Research Symposium. | |

CERTIFICATES

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|--|------------|
| • AWS Certified Solutions Architect | 2023-05-01 |
| • Google Cloud Professional Data Engineer - issued by Google Cloud | 2023-05-01 |
| • Microsoft Certified: Azure Fundamentals - issued by Microsoft | 2023-05-01 |
| • Certified Kubernetes Administrator (CKA) - issued by Linux Foundation | 2023-05-01 |
| • Certified Ethical Hacker (CEH) | 2023-05-01 |

PUBLICATIONS

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|---|------------|
| • Understanding Quantum Computing - published by Springer | 2023-05-01 |
| A comprehensive overview of quantum computing principles and applications. | |
| • Machine Learning for Beginners - published by O'Reilly Media | 2023-05-01 |
| • Advanced Algorithms in Python - published by Packt Publishing | 2023-05-01 |
| A deep dive into advanced algorithms and data structures using Python. | |
| • Data Science Handbook - published by Springer | 2023-05-01 |
| A practical guide to data science methodologies and tools. | |

PROGRAMMING LANGUAGES

- **Languages:** Python, Java, C++, JavaScript, TypeScript
- **Frameworks:** React, Node.js, Express, Flask, Django
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Tools:** Git, Docker, Kubernetes, AWS, GCP

SKILLS

- **Soft Skills:** Teamwork, Communication, Problem Solving, Time Management
- **Technical Skills:** Data Structures, Algorithms, Software Development, Web Development
- **Languages:** English (Fluent), Spanish (Conversational)