

EDUCATION

Harvey Mudd College

2023-08-01 — 2027-05-01

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

Claremont, CA

- *Selected coursework:* Data Structures, Program Development, Microprocessors, Abstract Algebra I: Groups and Rings, Linear Algebra, Discrete Mathematics, Multivariable & Single Variable Calculus

University of California, San Diego

2023-08-01 — 2027-05-01

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

La Jolla, CA

- *Selected coursework:* Data Structures, Program Development, Microprocessors, Abstract Algebra I: Groups and Rings, Linear Algebra, Discrete Mathematics, Multivariable & Single Variable Calculus

WORK

Meta

2024-06-01 — 2024-09-01

Software Engineer Intern | Short Form Video Monetization Team

Menlo Park, CA

- Collaborated with cross-functional teams to design and implement a new offline messaging feature for Facebook Messenger, enabling seamless communication without an active internet connection, which improved user retention by 15%.
- Optimized the app's core messaging algorithms, reducing latency by 20% and enhancing the overall user experience for millions of daily active users.
- Conducted in-depth performance profiling and debugging sessions, identifying and resolving critical bottlenecks that improved app responsiveness by 25%.
- Developed comprehensive unit and integration tests to ensure the reliability and scalability of new features, achieving 95% code coverage.
- Presented technical findings and project outcomes to senior leadership, receiving recognition for innovative solutions and impactful contributions.

Google

2024-06-01 — 2024-09-01

Software Engineer Intern | Short Form Video Monetization Team

Mountain View, CA

- Engineered a scalable video monetization platform for YouTube Shorts, enabling creators to earn revenue through innovative ad placements, resulting in a 10% increase in ad engagement rates.
- Designed and implemented a machine learning pipeline to recommend personalized ad formats, leveraging user behavior data to enhance targeting accuracy by 30%.
- Collaborated with product managers and UX designers to refine user-facing features, ensuring alignment with business goals and user needs.
- Optimized backend services to handle high traffic volumes during peak hours, achieving a 40% reduction in server response times.
- Authored detailed technical documentation and conducted knowledge-sharing sessions with team members to promote best practices and maintain project continuity.

PROJECTS

Hyperschedule

2023-11-01 — Present

Individual Contributor | *Maintainer*

Maintain open-source scheduler used by 7000+ users at the Claremont Consortium with TypeScript, React and MongoDB

- Manage PR reviews, bug fixes, and coordinate with college for releasing scheduling data and over \$1500 of yearly funding
- Ensure 99.99% uptime during peak loads of 1M daily requests during course registration through redundant servers

Claremont Colleges Course Registration

2023-11-01 — Present

Individual Contributor | *Maintainer*[Source code](#)

Maintain open-source scheduler used by 7000+ users at the Claremont Consortium with TypeScript, React and MongoDB

- Manage PR reviews, bug fixes, and coordinate with college for releasing scheduling data and over \$1500 of yearly funding
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Kanban Board

2023-11-01 — Present

Individual Contributor | *Maintainer*[Source code](#)

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VOLUNTEERING

San Diego Food Bank

2023-06-01 — 2023-09-01

Volunteer

San Diego, CA

Assisted in food distribution and community outreach programs, helping to provide meals to over 1,000 families in need.

- Organized food drives and fundraising events, raising over \$5,000 for local hunger relief efforts.
- 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.

Claremont Colleges

2023-06-01 — 2023-09-01

Volunteer Tutor

Claremont, 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

- [Best Student Award](#) - Awarded by Harvey Mudd College 2023-05-01
- Dean's List - Awarded by Harvey Mudd College 2023-05-01
Achieved Dean's List status for maintaining a GPA of 3.7 or higher.
- [Outstanding Research Assistant](#) 2023-05-01
Recognized for exceptional contributions to research projects in the Computer Science department.
- [Best Paper Award](#) - Awarded by Harvey Mudd College 2023-05-01
Received Best Paper Award at the Harvey Mudd College Undergraduate Research Symposium.

CERTIFICATES

- [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

- [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)