

Derek H. Lee

Sunnyvale, CA • (408) 314-9798 • dereklee1124@gmail.com

Education

California Polytechnic State University, San Luis Obispo Aug 2022 - Jun 2025

- 2025 B.S. Computer Science, GPA: 3.9
- Coursework: Data Structures, Algorithms, Computer Systems, Artificial Intelligence, Deep Learning, Databases, Theory of Computation, Data Security, Privacy, Computer Organization, Operating Systems, Networked Computing, Distributed Computing

Programming Skills

Java, Python, C, React, Javascript, Typescript, Kotlin, CI/CD, AWS Resources

Technical Work Experience

Amazon Kindle Direct Publishing - Software Developer Jul 2025 - Present

- Enhanced and maintained the KDP E-book publishing interface used by millions of authors worldwide.
- Owned and optimized backend services supporting E-book data processing and metadata management, improving system throughput and reliability.
- Designed and deployed several high-impact author-facing features, aligning with leadership goals to increase publishing efficiency and user satisfaction.
- Collaborated across cross-functional teams to modernize legacy workflows, ensuring full compatibility with AWS-native solutions and CI/CD deployment pipelines.

Amazon Kindle Direct Publishing - Jr. Software Developer Sep 2023 - Jun 2025

- Worked part-time during the academic year and full-time in summers on core publishing platform systems.
- Modernized a multi-step conversion workflow by migrating it to AWS Step Functions, Lambda, DynamoDB, and SNS, significantly improving scalability and maintainability.
- Designed and developed an automated metadata extraction pipeline to pre-populate draft titles, streamlining the author onboarding process.
- Developed 20+ system integration test packages, identifying edge-case failures early in the development cycle and increasing release confidence.

Sunnyvale Wrestling Club - Software Developer May 2021- Oct 2021

- Built a fully automated web solution for managing and scoring live wrestling tournaments.
- Directed three real-time tournaments with 300+ participants across Cupertino Union School District middle schools.
- Tools: Python, HTML/CSS, Google Apps Script, Google APIs

Projects

Cal Poly Maps - Web Application Jan 2025 - Jun 2025

- Developed an interactive campus map to help students find the fastest routes between classes.
- Implemented real-time location tracking and route optimization.
- Added intelligent search, building popups, and detailed building information.
- Tools: Next.js, React, TypeScript, Mapbox