

Divik Chotani

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EDUCATION

Bachelor of Engineering in Computer Science

Oct. 2023 – June 2027

University of California, Los Angeles

Los Angeles, CA

- GPA: 3.9/4.0
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Distributed Systems, Database Management, Software Engineering (Agile & Scrum), Web Application Frameworks

EXPERIENCE

Undergraduate Research Assistant

Mar. 2025 – Present

UCLA, Samueli School of Engineering

Los Angeles, CA

- Contributed to the open-source PaSh project by parallelizing core POSIX commands and enhancing compiler optimizations for distributed execution.
- Extended PaSh's annotations library to track dependencies and enable user-defined parallelization, improving pipeline throughput by 30%.
- Authored an eBPF monitoring tool in C, Rust, and Go to audit system calls, interrupts, and network packets on Linux for real-time analysis and reporting.

Software Engineering Intern

Sep. 2024 – Jan. 2025

Validia

San Francisco, CA

- Developed a React + Spring Boot Chrome extension for facial authentication, integrating OAuth and CI/CD pipelines via GitHub Actions.
- Built a JavaScript + Spring web app for deepfake detection using PyTorch, improving audio detection accuracy by 20%.
- Implemented FFT-based feature extraction and data pipelines with Python, MySQL, and JIRA for agile tracking.

Software Engineering Intern

June 2024 – Sept. 2024 & June 2025 – Sept. 2025

Pixii AI

Boston, MA

- Designed and deployed a Slackbot in Nest.js with PostgreSQL to auto-generate 30 days of AI-driven marketing content, reducing manual workload by 80%.
- Developed a TypeScript + React social media scheduler with Docker and AWS Amplify, automating post publishing and integrating analytics.
- Implemented usage analytics using PostHog and Next.js, providing dashboards for user behavior and informing UI improvements in Jira-driven sprints.

PROJECTS

Co-op Minesweeper | *Java, Spring Boot, React, PostgreSQL, Docker, WebSockets* | [Try the game](#)

- Engineered a full-stack multiplayer Minesweeper with Java REST APIs and React UI, integrating WebSockets for real-time collaboration.
- Secured authentication and session management with hashed passwords; used Agile (Scrum) practices and Jira for sprint planning.

Amazon Listing Grader | *TypeScript, Node.js, React, SQLite3, AWS Amplify* | [Try the product](#)

- Built a React-based web app to analyze and score Amazon product listings, offering actionable recommendations via AI-powered backend.
- Implemented Node.js API with serverless functions and SQLite3; deployed CI/CD pipelines with AWS Amplify and GitHub Actions.

TECHNICAL SKILLS

Languages: Java, C#, C++, Python, SQL, JavaScript (ES6+), TypeScript, Rust, Go, BPF, Swift

Frameworks and Tools: Spring Boot, .NET, Angular, React, Next.js, Node.js, Flask, FastAPI, Docker, Kubernetes, AWS (Amplify, EC2), GitHub Actions, Jira

Databases and Systems: PostgreSQL, MySQL, Redis, DynamoDB, Oracle, IBM z/OS, DB2, IMS, WMQ

Concepts: CI/CD, Agile/Scrum, Distributed Systems, Data Visualization (Matplotlib, D3.js), Microservices, REST APIs