

Alexander Lee

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EDUCATION

University of California, San Diego
Bachelor of Science in Computer Engineering

La Jolla, CA
Sep 2021 – Jun 2024

EXPERIENCE

Engineering Contributor, Open Source

Remote

Aidoku

Sep 2025 – Present

- Built and several multiple manga sources in **Rust** for a manga-reader IOS app, enabling users to select, search, and filter a catalog of 10,000+ titles, serving a community of **80,000** active users.
- Reported several integration bugs in the new API version that affected animated image rendering, improving the stability of several manga sources and overall user experience.

Software Engineer Intern

Redwood City, CA

CortexAI

Sep 2025 – Sep 2025

- Developed a core feature enabling the Agentic AI platform to connect seamlessly to legacy systems through an AI agent, expanding integration capabilities for enterprise clients.
- Contributed to the development of a demo presented to 15+ investors and customers, supporting efforts that led to multiple deals including a \$2M contract.

PROJECTS

PantryPal | Spring Boot, Next.js, PostgreSQL, Docker, AWS

Github Repo, Website

- Deployed web app using **AWS EC2 with Docker**, integrating GeminiAI for text generation to generate recipes for users to cook.
- Facilitated a team of 6 using Github Projects through **2 Agile Sprints**, achieving 90% of planned story points.
- Built CI/CD pipeline with Github Actions and Gradle, increasing test coverage to 80% and reducing deployment time by 10%.

LangBridge AI | Next.js, FastAPI, Amazon Bedrock Agentcore

Demo

- Delivered a **Hackathon winning AI Agent** with multiple integrated agents, utilizing Amazon Bedrock Agentcore and Model-Context-Protocol (MCP) for coordinated ad generation and demo presentation.
- Incorporated BrightData as a RAG pipeline to retrieve region-specific product, trend, and market insights, then leveraged MiniMax MCP Server to generate multi-lingual video ads curated towards specified countries/regions based on the market research insights.

Parserate | Next.Js, FastAPI

Github Repo, Demo

- Achieved **Second place** in hackathon with over 400+ attendees by building an AI Agent that parses and flags incorrect filled employment documents.
- Leveraged tools like **DocLing** and **Twilio** to parse PDFs and send automatic emails/phone calls to users that have correctly/incorrectly filled out files.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, Rust, C/C++, HTML/CSS, SQL, NoSQL

Frameworks: Spring Boot, React, Node.js, Next.js, FastAPI

Tools & Others: Git, AWS, Google Cloud, Docker, Postman, Agile/Scrum, JUnit