

Khai Phan

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EXPERIENCE

Software Engineer

Jan 2024 – Present

Tesla

Fremont, CA

- Launched a Jenkins pipeline parallelizing all tests by running them in Docker containers on shared VMs, decreasing total execution time by 56.6% compared to prior sequential pipeline
- Integrated automated screenshot capture into automated test reports, reclaiming 16 team-hours weekly for 4 engineers by streamlining debugging processes and accelerating release cycles
- Developed and rapidly iterated on 12 REST API endpoints using Golang in collaboration with CATL, integrating Tesla's employee data with CATL's user management system
- Implemented an AI Test Automation agent using Python and the Agno library to reduce time spent writing boilerplate end-to-end test code for Tesla One Vision team by 1.5 hours per week

Software Engineer Intern

Sep 2023 – Dec 2023

Tesla

Fremont, CA

- Reduced execution time of end-to-end Cypress tests by 33% by refactoring tests to follow best practices and migrating to Cypress v13
- Created a flake-safe typing test command used in 3 full test suites and by other engineers to make the test suites produce consistent results
- Increased the pass rate of regression tests by 20% by fixing flaky and outdated test cases, minimizing time spent re-running tests

Software Development Intern

Jun 2023 – Aug 2023

Cue Health

Remote (US)

- Reduced the time to treatment recommendation (in seconds) for customers by 21.7% by implementing multi-select widget answers in the health chatbot using OpenAI API and Java
- Enhanced the chatbot's recommendation capabilities by researching, comparing, and integrating the best of 3 vector databases for suggesting relevant company blog posts to end users

PROJECTS

Akula Bot | *Python, discord.py, PostgreSQL, pytest, Fly.io*

Feb 2024 – Present

- Developed and maintained a Twitch stream notification Discord bot using Python and PostgreSQL used by approximately 250 users between 3 servers
- Deployed a CI/CD pipeline with 30 pytest unit and integration tests running on a development server environment; decreased testing and deployment time by 1 hour per release

Gemini Docs | *Python, FastAPI, MongoDB, Qdrant, LangChain*

Apr 2024 – May 2024

- Led backend development team of 3 to create a FastAPI and MongoDB-based app that guides international students through visa, FAFSA, and college application processes
- Implemented retrieval augmented generation (RAG) using LangChain and Qdrant, enabling personalized Q&A with Google Gemini by parsing user-uploaded documents for context

SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS, Golang, C, C++

Frameworks: React, Node.js, Flask, FastAPI, Express.js, pytest, Next.js, Cypress, Selenium

Technologies: Git, Docker, Fly.io, AWS, REST APIs, MongoDB, Kubernetes, MySQL, PostgreSQL, Redis

EDUCATION

Oregon State University

Sep 2019 – Sep 2023

Bachelor of Science in Computer Science

Corvallis, OR

- Dean's List/Honor Roll (all terms); Summa Cum Laude; GPA: 3.98/4.00