

Kyle Ton

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EDUCATION

University of California, San Diego

Jun 2027

Bachelor's in Mathematics and Computer Science

La Jolla, CA

- Relevant Coursework: Object-Oriented Design and Programming, Computer Architecture and Assembly, Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Differential Equations, Single and Multivariable Calculus

EXPERIENCE

Fullstack/AI Engineer Intern

Oct 2024 – Dec 2024

PM Accelerator

Remote, CA

- Increased resume keyword count by **15%** by developing a full-stack resume enhancement application that applied **LLM-powered trend analysis** and **trend-based keyword injection**
- Reduced overall backend processing time by an average of **20 seconds** through **configuration of asynchronous Celery workers** with **Redis** and **Heroku**, accelerating concurrent resume enhancement requests
- Engineered a scalable resume database by structuring **MongoDB documents indexed by Google ID**, supporting **100+ user profiles** with secure access and retrieval

Software Engineering Intern

Aug 2024 - Oct 2024

Trace

Garden Grove, CA

- Automated version control tracking for **1000+ camera devices** using a Python-based logging tool, increasing **documentation accuracy and deployment traceability**
- Reduced troubleshooting time by **40%** by scripting **remote camera control with Paramiko SSH**, providing remote access and diagnostics from off-site terminals, reducing testing and validation time by 10 hours per week
- Diagnosed hardware issues by testing **Baud rate configurations** and **validating data integrity** during camera firmware updates

PROJECTS

Git-Lint | Python, FastAPI, Pinecone, AWS Lambda & S3, Docker, OpenAI API, GitHub API

May 2025

- Built an AI-powered code reviewer using **FastAPI**, **GitHub Webhooks**, and **GPT-4o-mini**, delivering automated feedback on 17+ pull requests while minimizing token usage
- Engineered a **RAG-based context retrieval system** using **Pinecone vector search** and **AWS S3**, embedding and indexing over **200+ code chunks** for high-accuracy contextual grounding in LLM prompts.
- Automated contextual code reviews by integrating **GitHub REST API**, **diff parsing**, and **LLM-based chunk matching**, achieving reliable retrieval and seamless inline PR commenting.

E-Commerce Spending Predictor | NumPy, Pandas, Seaborn, Scikit-learn

Apr 2025

- Developed and trained a **multi-feature linear regression model** to forecast online spending behavior with **98.4% accuracy**, trained using **stochastic gradient descent with cross-validation**
- Visualized dataset trends with **Seaborn**, highlighting key user spending patterns across categories and timeframes

StockSense | React, Java, Spring Boot, PostgreSQL, AWS S3, Docker, Redis

Feb 2025 - Apr 2025

- Built a real-time stock market platform combining **React-based UI** with a Spring Boot backend, delivering live prices, sentiment-tagged news, and storing it in **AWS S3**
- Integrated **Google OAuth 2.0** and **Redis** session-based authentication using **Spring Security**, and enforced **XSRF header token** usage to protect against CSRF attacks, protecting sensitive user data
- Persisted user and stock data through multiple tables using **PostgreSQL**, and implemented CI/CD through automated deployments with **GitHub Actions**

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks/Databases: React.js, Next.js, Spring Boot, FastAPI, MongoDB, PostgreSQL

Tools/Platforms: Git, Postman, Docker, Redis, Github Actions, AWS

Machine Learning: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn