

Kyle Ton

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EDUCATION

University of California, San Diego

Exp Grad: 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

Full-Stack Software Engineering Intern

Jun 2025 – Present

ForOurLastNames

Remote, CA

- Working on initial launch of product through AWS hosting and custom AI chatbot creation and integration

Fullstack/AI Engineering Intern

Oct 2024 – Dec 2024

PM Accelerator

Remote, CA

- Increased resume keyword count by **15%** by developing a full-stack resume enhancement application using **FastAPI** and **React** 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

MatchPointAI | NumPy, Pandas, Scikit-learn, FastAPI, React, AWS Lambda, Neon

May 2025 - Present

- Engineered **12+ features from 194,000+ rows** of ATP player data from 1978 to 2024 by **preprocessing historical performance metrics in parallel**, enabling efficient **feature engineering** for model training
- **Implemented 5-KNN imputation** to accurately fill missing and inconsistent data by **identifying era and rank-specific player similarities**, improving dataset integrity for more accurate predictions
- Developed and deployed an **XGBoost** prediction model using **FastAPI** and **React**, enabling custom matchup simulations between 1000+ players with **dynamic rolling statistics** based on recent 25-match performance windows

Git-Lint | Python, FastAPI, Pinecone, AWS Lambda & S3, Docker, OpenAI Agents SDK

May 2025 - Jun 2025

- Engineered an AI-powered code reviewer using **FastAPI** and **OpenAI's Agents SDK**, creating a **multi-agent system** capable of context-aware file-by-file analysis and iterative feedback
- Integrated a **RAG-based context retrieval system** using **Pinecone vector search** and **AWS S3** for over **200+ code chunks**, enabling access to relevant file embeddings for repo-specific memory across multiple agent steps during code reviews
- Containerized and deployed the system via **AWS Lambda**, **Docker**, and **GitHub Webhooks**, orchestrating automated PR event handling with scalable inference execution for real-time, intelligent code review suggestions

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**, with implemented CI/CD via **GitHub Actions**
- 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 and stock data stored using **PostgreSQL**

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