

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 Programming, Computer Architecture and Assembly, Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Differential Equations, Single and Multi-Variable Calculus

EXPERIENCE

Full-Stack Software Engineering Intern

Jun 2025 – Aug 2025

ForOurLastNames

Remote, CA

- Enabled rapid initial product launch by deploying the ForOurLastNames flagship product using **AWS Lambda, Docker, AWS S3, and AWS CloudFront**, supporting scaling from 40 initial users to **5,000+ projected** within 12 months **without significant additional infrastructure costs**
- Built a subscription-ready authentication and payment pipeline integrating **Supabase authentication with Stripe**, designed for secure transactions with PCI-compliant data flows, validating database access/update with **row-level security**, supporting an **expected \$50K ARR** in year one
- Implemented application monitoring with **Prometheus** and **Grafana** to track 6+ **real-time performance and system metrics**, enabling **resource optimization** and providing **capacity planning** insights for future growth

Full-Stack 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**

PROJECTS

MatchPointAI | NumPy, Pandas, Scikit-learn, FastAPI, TypeScript, Next.js, PostgreSQL

Jun 2025

- Engineered **12+ features from 389,000+ rows** of ATP player data (1968 to 2024) by **pre-processing historical performance metrics in parallel**, enabling efficient **feature engineering** with 25-match rolling statistics
- **Implemented 5-KNN imputation** on 10,000 sample rows to accurately fill missing data by identifying era and rank-specific player similarities, improving dataset validity for more accurate predictions, achieving **67.95%** randomized search cross-validated accuracy through **optimizing 7+ hyperparameters**

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

May 2025

- Engineered an AI-powered code reviewer using **FastAPI** and **OpenAI's Agents SDK**, creating a **parallel multi-agent system** capable of context-aware file-by-file analysis and iterative feedback, automating pull request code review suggestions
- 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

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**
- Enabled data-driven investment insights by **web-scraping recent stock news** via Yahoo Finance API, analyzing article sentiment with **HuggingFace's FinBERT** model, and scoring relevance for usage in user financial decisions

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript/TypeScript, 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