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 – Present
ForOurLastNames — *Remote, CA*
- AWS Hosting + CI/CD Deployment Monitoring + Custom LangChain Chatbot Creation + Stripe Integration

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**
- Diagnosed hardware issues by testing **Baud rate configurations** and **validating data integrity** during camera firmware updates

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
- Developed and deployed an **XGBoost prediction model** with 1200+ players using **FastAPI** and **React**, 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
- 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