Steve Wang

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EXPERIENCE

Amazon, Multi-Channel Fulfillment — Seattle, WA
Software Development Engineer (Kotlin) — Apr. 2025 – present

- Spearheaded a large-scale refactor of a GraphQL API service, reducing the codebase size by over 50% and improving maintainability, saving 3-6 weeks of onboarding and maintenance time per API version, reducing technical debt, and improving scalability.
- Built internal tooling to automate schema refactor processes and future GraphQL schema inspections.
- Created an MCP server that allows developers to run GraphQL queries against an alpha-stage database, improving development efficiency and reducing reliance on production data.

AWS, Elastic VMware Service — Seattle, WA
Software Development Engineer (Java) — Feb. 2025 – Apr. 2025

- Delivered a time-sensitive critical integration project for customer data deletion operations to meet the AWS service launch requirement, ensuring secure deletion of customer data and compliance with data protection standards.
- Authored and reviewed over 8,000 lines of production code within two months, implementing core data isolation, hard deletion logic, alarms, and safety checks to safeguard sensitive operations.
- Designed metrics, operational tooling, and integration tests to validate data integrity and ensure production readiness, aligning with strict security protocols.

arXiv.org at Cornell University — Ithaca, NY
Volunteer (Python) — Sept. 2024 – Dec. 2024

- Developed metrics and cost functions for arXiv's machine learning model, enhancing the evaluation of model performance and alignment with organizational goals.
- Built a web application to streamline training dataset creation, enabling efficient labeling and categorization by human classifiers.

AWS, Outposts — Seattle, WA
Software Development Engineer Internship (Python) — Jun. 2024 – Aug. 2024

- Designed a forecasting service for AWS Snow internal customers, improving business planning accuracy.
- Built and trained machine learning models for lead time prediction, leveraging survival analysis and advanced feature engineering.
- Created a data pipeline to automate model retraining and batch predictions, ensuring consistent accuracy with evolving data trends.
- Collaborated with stakeholders and a UX designer to create a Slack bot interface, enhancing user accessibility and engagement.

Graph Mining Group at Emory University — Atlanta, GA
Research Assistant (Python) — Sept. 2022 – Jan. 2023

- Created high-quality training datasets for graph machine learning models, accelerating research in medical and pharmaceutical machine learning projects.

SKILLS

Programming Languages: Java, Python, Kotlin, JavaScript, TypeScript, C, C#.
Tools: SQL, Bash, Docker, Git, Figma.
Frameworks & Libraries: AWS, React, Django, Spring Boot, NumPy, Pandas, PyTorch, TensorFlow, Scikit-learn, Express.js.

PROJECTS

SQL Query Engine from Scratch, Cornell CS 5321 (Java) — Sept. 2024 – Dec. 2024

- Single-handedly engineered a static SQL query engine (7,500+ LOC), implementing advanced algorithms such as heuristic optimization, external sorting, and B+ tree indexing.
- Optimized query execution with page buffer management, custom serialization formats, and efficient memory allocation, achieving significant performance gains.

TracCrop, Master's Degree Capstone Project (React + Django + Azure) — Oct. 2023 – May 2024

- Enhanced an agriculture management platform, improving usability for North American farmers.
- Designed specialized workflow controls and data visualizations based on user feedback, increasing platform adoption by 20%.
- Automated ETL pipelines to update reference data, ensuring database accuracy and reducing manual intervention.

Multiplayer Rogue-like Game (Unity + C#) — Sept. 2022 – Dec. 2022

- Led a team of five to develop an online multiplayer rogue-like game, utilizing Scrum methodologies.
- Implemented procedurally generated dungeons and custom enemy behaviors, enhancing gameplay variety and engagement.
- Delivered a polished game with interactive logic and animations, receiving high praise in a Software Engineering course.

EDUCATION

Cornell University, College of Engineering — Ithaca, NY
Master of Engineering in Electrical & Computer Engineering, GPA: 3.6/4.0 — Sept. 2023 – Dec. 2024

Emory University, College of Arts & Sciences — Atlanta, GA
Bachelor of Science in Mathematics & Computer Science, GPA: 3.6/4.0 — Sept. 2021 – May 2023