Curt Tanaka

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Summary

Full-stack Developer with proven experience developing web and mobile applications. Reduced bandwidth usage by 80% at Avian Impact by implementing query optimization and demonstrated problem-solving skills by implementing 4+ bug fixes weekly. Proficient in Java, JavaScript, React, Ionic, and database management systems including PostgreSQL and Firebase.

Education

University of Washington Seattle *BS in Informatics*   *Sept 2020- March 2025*

- **Relevant Coursework:** Object Oriented Programming, Data Structures and Algorithms, Databases and Data Modeling, Client Side Development, Production and Information Systems Management, Software Design and Implementation.

Technologies

Front End: React, JavaScript, TypeScript, HTML, CSS, Tailwind, Ionic.
Backend: Java, Python, Node.js, Spring Boot, JDBC.
Databases: PostgreSQL, MongoDB, Firebase, MySQL.
Tools: Git, Azure, Maven, Gradle, VS Code, IntelliJ, Google Office Suite, Microsoft Office Suite.

Experience

Software Engineer Intern   *Seattle, WA*
Avian Impact   *March 2025 – Current*

- Refactored the code base to optimize queries to the Firebase database and implemented pagination on 3 separate pages, reducing bandwidth usage by 80%.
- Developed Live Birds feature that tracked real-time sightings with location and weather data, increasing app usage by an average of 30%.
- Recreated bugs in testing and implemented fixes, pushing at least 4 per week.
- Refactored search feature in bird search, based on the top results on popularity and likelihood of prevalence in a given area, increasing the accuracy of the sighting records by 40%.
- Researched and led the bandwidth reduction effort after testing exposed the issue.
- Implemented agile practices in meetings to prioritize tasks and define meeting goals in a 5-member team.

Personal Projects

Appointment Reservation System   *github.link* ↗

- Developed a Java-based Appointment Reservation System, enabling patients to schedule vaccine appointments and caregivers to manage inventory in 3 months.
- Designed and implemented a RDS hosted on Microsoft Azure, ensuring secure data storage and retrieval.
- Implemented secure password handling using salting and hashing techniques to protect user credentials.
- Technologies: Java, SQL, JDBC, Microsoft Azure, IntelliJ IDEA, and Git.

Flickr Sentiment Analysis   *github.link* ↗

- Worked with a team of 4 for 3 months to ideate and execute the team's vision.
- Leveraged Flickr's API to pull and analyze Comment data on the Israeli-Palestinian conflict.
- Identified limitations in NLTK for complex sentiment analysis and documented these challenges as part of the stakeholder presentation.
- Tools used: Python, R, Streamlit, Git, NLTK, and VADER.