

XiaoZheng(Sophia) Wang

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Summary

Highly motivated Entry-level Software Engineer holding an M.S. in Computer Science with proven hands-on experience in full-stack development and data-intensive applications. Expertise includes **Python, Java, JavaScript, React, FastAPI, and PostgreSQL**. Proven ability to build and deploy complex tools, including a full-stack data analysis application and an AI-powered Chrome extension.

Technical Skills

Languages: Python, Java, JavaScript, C/C++, SQL

Frameworks & Libraries: React, FastAPI, Node.js, JavaFX, Scikit-learn

Databases: PostgreSQL, MongoDB, Oracle SQL

Cloud & Big Data: AWS, Spark

Tools & Technologies: Git, REST APIs, Chrome Extensions, LangGraph, TCP/UDP

Projects

QuickMind – AI Productivity Chrome Extension (Google Chrome Built-in AI Challenge 2025) | *JavaScript, HTML/CSS, Google On-Device AI API*

- Built a Chrome extension that summarizes, translates, and proofreads selected text using Google's on-device AI models.
- Designed a highlight-and-action user workflow for frictionless productivity.
- Developed full functionality independently, including UI components, API integration, and demo video.
- Published project with full source code and documentation.

Yelp Data Analysis Application | *Java, JavaFX, PostgreSQL*

- Built a full-stack data analysis tool using Java and JavaFX (MVC architecture).
- Optimized query performance for 200,000+ Yelp records through strategic indexing and schema design.
- Implemented real-time search, dynamic category filters, and custom data visualizations.
- Ensured reliability and accuracy of data flow using JDBC.

Machine Learning Popularity Predictor | *Python, PySpark, Scikit-learn*

- Collaborated in a 4-member team to classify article popularity using a dataset of 39,000+ entries.
- Used PySpark for distributed preprocessing and model training.
- Trained and tuned ML models (Random Forest, KNN, Logistic Regression, Naive Bayes).
- Achieved 79.8% prediction accuracy.

Modern Full-Stack Application (In Progress) | *React, FastAPI, MongoDB*

- Building a full-stack web app with authentication and CRUD functionality.
- Designing REST APIs with FastAPI and a flexible schema with MongoDB.

Education

M.S., Computer Science & Engineering — Santa Clara University, CA | March 2024

B.S., Business Administration (Accounting) — San Francisco State University, CA