Jaelyn Tran

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Portfolio • **GitHub**

Education

University of California, Irvine	Irvine, CA
Bachelor of Science in Computer Science	June 2025

Relevant coursework: Computer Architecture, Operating Systems, Computer Networks, Data Management, Machine Learning & Data Mining, Information Retrieval, Software Design

Orange Coast College	Costa Mesa, CA
Associate of Science in Computer Science	June 2023

Relevant coursework: Data Structures, Discrete Structures, Calculus-Based Physics: Mechanics

Experience

Software Engineer Intern	Fountain Valley, CA
Personable Inc.	Sep – Nov 2023

· Collaborated with cross-functional teams to optimize ScanWriter features, improving data import stability and processing speed.
· Enhanced reader performance by refining parsed XML data from bank statements and identifying template patterns, reducing manual user corrections.
· Trained and evaluated AI/ML prediction models for automated financial data extraction, improving accuracy by ~15%.

Projects

Simple Calculator   **GitHub**

· Built a lightweight desktop calculator using Python and Tkinter with support for basic arithmetic and percentage operations.
· Implemented input validation and parsing logic to ensure accurate and safe equation handling.
· Designed a modular architecture separating parsing, computation, and GUI components for maintainability.

QuickRecap Discord Bot   **GitHub**

· Developed a Discord bot using JavaScript and discord.js to summarize recent chat messages and automate periodic summaries with slash commands (/summarize, /autosummary).
· Integrated the node-summarizer library to produce basic text summaries while filtering out mentions, links, and unnecessary characters.

Projects

Sleep Tracker   **[GitHub](#)**
· Developed a cross-platform mobile app using Ionic, Angular, and TypeScript.
· Implemented local storage APIs for persistent user data.
· Designed a clean UI with responsive layouts for mobile devices.

Spotify Browser   **[GitHub](#)**
· Developed a full-stack web application using Angular (frontend) and Node.js/Express (backend), building on a provided backend codebase.
· Implemented dynamic components to search and display artists, albums, and tracks using async HTTP requests.
· Parsed and displayed JSON responses from REST API endpoints to provide a responsive and interactive user experience.

Movie Database Web App   **[Demo](#)**
· Designed and deployed a full-stack Java web app on AWS EC2.
· Secured user authentication by encrypting stored passwords with Java Simplified Encryption and enhancing login security with Google reCAPTCHA.
· Developed search with autocomplete using SQL full-text indexing and query caching.
· Built a session-based shopping cart with Java Servlets and JDBC for secure checkout, following a clear frontend-backend separation.

Search Engine   **[GitHub](#)**
· Collaborated to construct a comprehensive inverted index and TF-IDF ranking algorithm for relevance scoring.
· Optimized index construction and merging pipeline using batch processing to support large-scale document collections.

Technical Skills

Programming Languages: Python, JavaScript / TypeScript, C++, Java, SQL
Web & Mobile Development: Angular, Ionic, Node.js / Express, React, Tailwind CSS, HTML5 / CSS3, jQuery, REST APIs, JSON
Databases & Cloud: MySQL, PostgreSQL, AWS (EC2)
Tools/Platforms: Git/GitHub, Docker, Kubernetes, Apache Tomcat, Apache JMeter, VS Code, IntelliJ, PyCharm, CLion, Figma