

# Weiguang (Seraphine) Wu

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## Education

**University of California, Irvine**

June 2025

**B.S. in Computer Science, GPA: 3.48**

**Relevant Courseworks:** Data Structure & Algorithm, Database Management, Machine Learning, Software Design, User Interaction, Information Retrieval

**Honors:** Dean's Honor List for 7 quarters

## Projects

**Search Engine ([github](#))**

March 2023

- Programmed functions to retrieve, parse, and tokenize web content and implemented ranking algorithm for ranking the relevancy of each webpage

**HandTracker Todo List App ([github](#))**

April 2023

- Programmed a web application utilizing HandTrack.js that allows users to create a todo list using various hand gestures

## Experiences

**Fabflix Movie Database Web App ([github](#))**

October 2023

- **Duration:** 10 weeks; **Lines of code:** 278995
- **Technologies used:** Tomcat, Java, MySQL, JDBC, HTTPS, RESTful APIs, javascript, JQuery, Apache, git, AWS, jMeter, Android App Development, reCAPTCHA
- Fully built architecture from scratch. Setup AWS instance, MySQL, Tomcat, imported a large database of movie information
- Implemented a large frontend using javascript, jquery, and ajax while administering the same functionality in an Android app using the same backend API
- Developed an ETL pipeline to parse large XML files to augment the existing database.
- Comprised 20 medium features, e.g., fully functional website that displays a catalog of 1000s of movies, cart checkout backed by sessions, bot detection using reCAPTCHA, protection against SQL Injection attacks via PreparedStatements, etc

## Skills

**Languages:** Java, C/C++, Python, HTML, CSS, Javascript, SQL

**Operating Systems:** Unix/Linux, Windows