

CHERYL CHEN

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EDUCATION

University of California, Irvine

2021 - Present

Major: *Computer Science, B.S.* | GPA: 3.99 | Expected Graduation: June 2025

- **Relevant Coursework:** Data Structure & Algorithms; Data Management & NoSQL; Machine Learning & Data-Mining; Artificial Intelligence in Biology & Medicine, Project in Databases & Web Applications; Information Retrieval
- **Achievements:** Dean's Honor List; Tarkovsky Prize (placed first in essay contest hosted by SF Art & Film)
- **Technical Skills:** Python, Java, C++, SQL, HTML/CSS, JavaScript, Git, MongoDB, Databricks, Neo4j, Figma
- **Extracurriculars:** Women in CS, VenusHacks organizer, Guitar, Grader for health data analytics course

RELEVANT EXPERIENCE

Software Engineering Intern | Johns Hopkins Applied Physics Laboratory | Laurel, MD

June 2024 - August 2024

Threat Analytic Systems Group | Active Secret Clearance

- Transformed and deployed data pipeline tool for harvesting scientific papers to retrieve, process, and store data on a daily basis. Optimized execution by 30x. Interacted with REST APIs, published to Kafka topics, and transferred object data to S3 cloud storage using **Python, Docker, MinIO, and Postman**
- Developed front/backend features involving integrating newly available data in a wikipedia-like web application running on a graph database using **Angular, TypeScript, SPARQL, and HTML/CSS**
- Automated and wrote 100+ UI tests with **Playwright** and implemented a testing stage in the project's GitLab continuous integration pipeline to encourage safe deployment and easier identification of code faults

Research Assistant | All of Us Research Program (UCI) | Irvine, CA

June 2023 - September 2023

- Utilized **Python, Pandas, and SQL** on a NIH health database to conduct a case-controlled breast cancer study
- Performed data retrieval/analysis and examined scientific literature to answer research questions

Scientific Computing Intern | California Academy of Sciences | San Francisco, CA

July 2022 - December 2022

- Implemented web scraper that scans research papers to find specimen citations for measuring museum's impact
- Developed mockups for a collections explorer project aiming to educate the public on the scientific importance of collecting specimens. Debugged and wrote documentation for a genomics project focused on gene synteny

Quality Assurance Intern | Dataships | Dublin, Ireland

June 2022 - August 2022

- Performed quality assurance checks for 140 customers to confirm software product was installed properly
- Conducted a competitor's analysis of 30 companies to assist founder in preparing for board meeting

VOLUNTEERING

Software Developer | Commit the Change | Irvine, CA

December 2023 - June 2024

- Developed full-stack with **React, PostgreSQL, Express.js, and HTML/CSS** in **Agile** workflow to deliver high-quality software for nonprofit supporting disadvantaged youth in STEM
- Cooperated with a team of developers and designers and built a schedule management system to aid in long-term planning and elevate the organization's capacity to efficiently manage more students, staff, and events

Community Outreach Committee Member | Women in Computer Science | Irvine, CA

January 2023 - Present

- Created tailored curriculum that encouraged underrepresented youth to explore CS
- Led, presented, and mentored at multiple technical and professional development workshops for high school girls

PROJECTS

Fabflix | *Online Blockbuster*

- Movie database web app built with **Java, Tomcat, MySQL, JDBC, JavaScript**. Composed of ~20 features with movie catalog and cart checkout. Developed ETL pipeline to parse large XML files. Deployed on **AWS**.

Zotciety | *Building Friendships with Tech*

- Web application built with **React, Firebase, HTML/CSS, and Bootstrap**, that aims to foster the development of social connections through Q&A and fun challenges. Led design of user interface. **Awarded "Best Beginner Hack" at HackUCI**, the largest collegiate hackathon in Orange County.