

# JUAN PABLO ZAVALA

San Jose, CA | [jpzavala.github.io/jpz-portfolio-app](https://jpzavala.github.io/jpz-portfolio-app) | (949) 401-0714 | [zavalajp@uci.edu](mailto:zavalajp@uci.edu)

## WORK EXPERIENCE

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### ColorTokens, Inc.

Software Developer in UI Development

San Jose, CA

May 2022 – October 2022

- Integrated a mobile-first approach in a cloud security web application by reimplementing over 10 webpages to follow accessibility guidelines and responsiveness in smaller web viewports
- Reduced load times by 23% by optimizing and maintaining React code, refactoring files, and migrating CSS files to SCSS
- Collaborated with 4 developers to launch over 10 new API endpoints, enabling the frontend to display additional key data regarding security vulnerabilities
- Executed bug fixes and code reviews in JavaScript, React and Go to reduce bug incidence by 30% over 3 releases in a 4 month period

### UCI's Office of Information Technology (OIT)

Student QA Engineer Intern

Irvine, CA

May 2021 – March 2022

- Completed the implementation of new features for 7 academic web applications by performing manual testing, automated testing using Java and Selenium, and reporting bugs before release
- Maintained relationships with 10 web developers, product designers, and support staff in a Scrum team to accomplish QA testing endeavors
- Mentored 3 onboarding student QA engineers over 3 months by showing testing approaches and tools, resulting in the expansion of the QA team in the company

## TECHNICAL PROJECTS

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### Fabflix – Movie Rental Web Application

September 2021 – December 2021

- Implemented the complete front-end and back-end of an e-commerce web application that allows users to search movies, add them to a shopping cart, and buy movies from a catalog
- Programmed browsing, security, and mobile features including full-text search, autocomplete, and authentication
- Launched website on remote AWS and GCP instances and scaled using data replication and server load balancing
- Used Java, JavaScript, Tomcat, MySQL, HTML, CSS, and Apache HTTP Server

### FitTrack

January 2021 – March 2021

- Co-led a group of 3 developers to create a physical wellness mobile application that uses a custom-made recommendation system to provide users with personalized routines, workouts, and exercise recommendations
- Constructed the app's front-end by programming screens, input controls, navigational components, and informational components
- Used Dart, Flutter, and Python

### Search Engine System

September 2020 – December 2020

- Led a group of 4 classmates to write a search engine from the ground up that is capable of handling tens of thousands of documents and web pages, under harsh operational constraints and having a query response under 300 milliseconds
- Created a program that builds an inverted index while keeping a small memory footprint and launched a web interface
- Improved search result quality by implementing near duplicate page detection with the Simhash algorithm
- Used Python, HTML, CSS, and Flask

## EDUCATION

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### University of California, Irvine

B.S. in Computer Science GPA: 3.93 - Cum Laude

Irvine, CA

**Relevant Coursework:** Design and Analysis of Algorithms, Data Structure Implementation and Analysis, Project in Databases and Web Applications, Computer and Communication Networks, User Interaction Software

**Honors:** Dean's Honor List (Fall 2018 – Winter 2022)

### Meta's Back-end Developer Professional Certificate

November 2022 – Present

## SKILLS AND TECHNOLOGIES

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- Work experience with React, Next.js, JavaScript ES6, HTML5, CSS3, SCSS, Python, Java, MySQL, MongoDB. Familiar with Typescript (Angular), Vue.js, Node.js, Express.js, Go, C/C++, Dart, R, MIPS Assembly
- Git/GitHub, Linux, Postman, IntelliJ IDEA, Visual Studio Code, Visual Studio, AWS EC2, Azure, GCP virtual machines
- Fluently speak, write, and read Spanish