

Simar Cheema

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EDUCATION

University of California, Irvine

Bachelor of Science in Computer Science / GPA: 3.91

Irvine, California

September 2021 - December 2024

EXPERIENCE

Software Engineer Intern

Major League Baseball

El Segundo, California

June 2024 – September 2024

- Independently developed a test automation project using Node JS and Playwright for MLB's ticket sales website responsible for generating over 8 figures in revenue
- Refactored codebase from 7500+ lines to 250 for easier maintenance and readability
- Developed 100+ end-to-end automation tests for multiple happy path scenarios ensuring full coverage
- Leveraged parallel execution to run 20+ tests across QA and UAT environments in under 3 minutes, reducing manual testing time by over 78.5%
- Used a data driven approach for test cases with CSV files to streamline test case creation and improve readability of test case variables
- Found multiple bugs in lower environments through a deep analysis of automation runs ensuring a stable production environment

Software Engineer Intern

Major League Baseball

Costa Mesa, California

June 2023 – December 2023

- Automated over 80 end-to-end black box test cases, resulting in reduced test execution time and critical bugs released
- Created a detailed documentation framework to enhance automation efforts by adding unique identifiers on the React front-end website, simplifying XML locator accessibility for automation and QA engineers
- Utilized Allure framework and Sauce Labs for generating reports of automated tests being executed
- Conducted demos and trained software testers in Playwright automation

Full Stack Software Engineer

UCI CubeSat

Irvine, California

October 2022 – September 2023

- Worked as a full stack developer in a team of 5 to continue the development of a website to monitor satellite operations
- Converted backend from Python to TypeScript and Express for maintainability
- Conducted research about different databases and how their strengths and weaknesses align with the project
- Created database schema and transitioned database from PostgreSQL to MySQL using PlanetScale and inserted mock data into the database to test the full-stack website

Software Developer

UCI ICS Student Council – ZotMeal API

Irvine, California

December 2022 – September 2023

- Created a new feature to scrape and pull menu data from the UCI Dining website a week in advance and format it
- Currently working on automatically running the script once every day through Amazon AWS

Undergraduate Lab Tutor

UC Irvine

Irvine, California

September 2022 – January 2023

- Coordinated with a Teaching Assistant to assist 50+ students in an introductory programming class in Python
- Answered questions about programming concepts and code debugging and proctored tests
- Taught fundamental programming concepts such as control structures, basic data structures, functions, and classes

PROJECTS

Full Stack React Game | [React Frontend](#) | [Express Backend](#)

- Built a full-stack real-time multiplayer game using Node.js, Express, React, and Socket.io
- Utilized RESTful API architecture and socket-based communication to handle game state, player sessions, and game logic
- Created a dynamic and interactive user interface with React and React Router

Zombie Game | [View Code](#)

- Designed and developed an interactive third-person shooter game using Pygame with a progression loop
- Designed back-end data structures to store the state of the game as the game progresses
- Created a graphical interface using gimp photo editing software

UniWell Swift IOS App | [View Code](#)

- Worked in a group of 4 to develop UniWell, a wellness habit-tracking app, using SwiftUI and Apple HealthKit to track hydration, sleep, and fitness levels
- Implemented personalized recommendations based on user data, integrating GPS, MapKit, and ExerciseAPI for health insights
- Utilized Firebase for secure user data storage, ensuring privacy while offering real-time access to personalized wellness metrics.