

Rachel Chau

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EDUCATION

University of California San Diego

La Jolla, CA

Bachelor of Science in Computer Science

September 2021 – June 2025

- **Coursework:** Software Engineering, Algorithms, Object Oriented Programming, Data Structures, Machine Learning, Search and Reasoning, Systems Analysis, Systems Programming, Computer Architecture, Operating Systems, Digital Systems, Software Tools, Data Science, Analog Design
- **Major GPA:** 3.72/4.00

WORK EXPERIENCE

Epsilon C5I

San Diego, California

Software Engineer Intern

June 2024 - Present

- Develop a user-friendly GUI using Python and Tkinter to streamline operations
- Improve usability of the testing automation framework, eliminating the need to navigate through the command line and multiple file systems, allowing users to run necessary tests within the application
- Implement functionalities to read and manage configuration files through a GUI
- Participate in Agile development processes, to ensure continuous progress and effective communication

San Diego Supercomputing Center

San Diego, California

Full Stack Developer Intern

June 2023 - August 2023

- Successfully managed the project by attending daily scrum meetings with the development team to ensure project progress and resolve any impediments
- Utilized Android Studio and various Firebase services, including Firebase Authentication, Firestore, Storage, and Cloud Functions, to develop and deploy the mobile application
- Employed MVVM architecture for Android app development, promoting code maintainability and a streamlined user interface

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, x86, ARM Assembly, Kotlin, Haskell, SystemVerilog, MATLAB, R
Technologies: JUnit, MongoDB, Firebase, Robot Framework, Tkinter, ChatGPT API, Whisper API, DALL-E API
Developer Tools: Git, Visual Studio Code, GitHub, GitLab, Express.js, Node.js, pandas, Jetpack Compose

PROJECTS

Pantry Pal | *Java, MongoDB*

Fall 2023

- Integrated MongoDB and OpenAI APIs to enable recipe generation based on user-provided ingredients, enhancing user experience with seamless input and personalized recipe output
- Developed HTTP server to manage backend requests, enhancing data handling between frontend and database
- Utilized JavaFX library for frontend development, ensuring intuitive user interface and smooth navigation
- Enabled GitHub continuous integration testing for streamlined development, ensuring code quality and consistency

Eventify | *JavaScript, Express.js, Node.js, MongoDB* | [GitHub](#)

Spring 2023

- Collaborated in a team of 6 members to develop a web application using the MERN stack that allowed UCSD organizations and students to post and discover events
- Used MongoDB for data storage and retrieval, Express.js for building RESTful APIs, and Node.js for backend logic
- Utilized Amazon S3 for efficient photo storage and retrieval, allowing users to upload and display event flyers
- Implemented user registration and authentication using Passport.js

Markdown Parser | *Java, Git, JUnit* | [GitHub](#)

Winter 2022

- Created a program that parses through any given markdown file and outputs detected links
- Implemented JUnit tests and Makefiles to ensure consistent performance against hundreds of files and test cases
- Collaborated with a team through Git and Github to manage version control, track issues, and review code