

# Justin Chung

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## EDUCATION

**Santa Clara University** *B.S. Computer Science and Engineering*

**Sept 2021 – May 2025**

**Relevant Coursework:** Abstract Data Types and Data Structures, Object-Oriented Programming (C++), Advanced Algorithms, Artificial Intelligence, Machine Learning, Computer Networks, Database Systems

## EXPERIENCE

**Software Engineering Intern**

**Dec 2023 – May 2024**

**Vili LLC**

**Remote**

- Contributed to "Magnet", an event-based iOS social app using **React Native** and **Typescript** for app features and designed RESTful APIs with **Python** and **FastAPI** for efficient client-server communication.
- Optimized authentication by designing login pages and building backend APIs for Google, Apple, and WeChat authentication, **increasing user sign-up rate by 30%**.
- Provided support for existing deployments using **Docker**, contributing to stability and scalability.

**Research Assistant**

**Sept 2023 – June 2024**

**Santa Clara University**

**Santa Clara, CA**

- Developed a web scraping application with **Python** and **Flask**, integrating BeautifulSoup and Trafilatura for content extraction from blogs, including features for text cleaning and pagination handling.
- Implemented Natural Language Processing (NLP) models including T5, BART, and Pegasus for text summarization, showcasing machine learning and model optimization skills.
- Programmed text analysis techniques including Latent Dirichlet allocation for keyword extraction and ROUGE metric for summarization evaluation, showing expertise in data processing and algorithm implementation.

**Software Engineering Intern**

**March 2023 – June 2023**

**GoodDay**

**Santa Clara, CA**

- Collaborated in the development of a full-stack mental health and addiction recovery app for iOS and Android devices by engineering features that enhance connectivity between healthcare providers and patients.
- Designed several components and screens in **React Native** and **JavaScript** and developed the navigation between these screens.
- Integrated the application to Firebase for backend services, ensuring efficient data management, authentication, and **enabled user interaction on the app**.

## PROJECTS

**PlatePals** | [GitHub Repo](#) | [Website](#)

**Feb 2023 – April 2023**

- Designed a full-stack recipe sharing website that enhances connectivity among culinary enthusiasts.
- Incorporated responsive web design and search/filter capabilities to explore recipes by categories or ingredients with **HTML**, **CSS**, and **JavaScript** for a seamless user interface.
- Enabled user registration, profile customization, recipe uploads with full descriptions and images, and interactive elements like following other users, rating, and commenting, using **PHP** and **SQL**.

**Playlist Converter** | [GitHub Repo](#) | [Demo](#)

**July 2023 – August 2023**

- Created a full-stack web application integrating Spotify and Google APIs using **React.js**, **Node.js**, and **Express.js** to convert playlists from Spotify to YouTube.
- Managed OAuth 2.0 flow in the backend using Passport.js and managed access tokens for both Google and Spotify authentication, focusing on secure user authentication and efficient data handling.

## TECHNICAL SKILLS

**Languages:** C/C++, JavaScript, Typescript, Python, Java, Swift, Flutter, HTML, CSS, MySQL

**Frameworks/Technologies:** React, React Native, Flask, Node.js, MongoDB, Express.js, FastAPI, Tailwind, Docker, Expo, Postman, AWS, Firebase

**Developer Tools:** GIT, Google Cloud Platform, Figma, Heroku, VS Code, Chrome DevTools