

Justin Chung

626-986-9913 | jdchung@scu.edu | [linkedin.com/in/justin-chungg](https://www.linkedin.com/in/justin-chungg) | justinc0251.github.io/portfolio

EDUCATION

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

Sept 2021 – May 2025

Relevant Coursework: Abstract Data Types and Data Structures (C++), Object-Oriented Programming, Advanced Algorithms, Artificial Intelligence, Embedded Systems, Operating Systems, Machine Learning Web Development, Database Systems

EXPERIENCE

Research Assistant

Aug 2023 – Present

Santa Clara University

Santa Clara, CA

- Engaging in an AI waste management research project, focusing on engineering AI solutions to create accessible and shareable waste management content.
- Developed a web crawler and scraper using Python and BeautifulSoup to collect environmental data and blog posts from various sources.
- Implementing Large Language Models and text-to-image tools to simplify complex data and create easily shareable and understandable materials to encourage effective waste management practices.

Mobile Engineering Intern

March 2023 – June 2023

GoodDay

Santa Clara, CA

- Contributed as a proactive team member in the development of a full-stack cross-platform mobile application aimed at assisting community members in overcoming everyday addictions.
- Responsible for designing and implementing critical components such as the home, feed, and contact screens using React Native.
- Coordinated team in connecting the application to Firebase, ensuring efficient data flow, authentication, and user engagement while delivering well-documented code.

PROJECTS

Playlist Converter | github.com/justinc0251/spotify-youtube-converter

July 2023 – August 2023

- Designed a full-stack web application integrating Spotify and YouTube APIs using React and Express.js to convert playlists from Spotify to YouTube while facilitating secure user authentication and data retrieval.
- Devised real-time feedback on the conversion process, displaying statuses for each playlist item.
- Maintained OAuth 2.0 flows using Passport.js and managed access tokens for both YouTube and Spotify authentication, ensuring user security.

Discord Music Bot | github.com/justinc0251/discord-music-bot

May 2023

- Developed a music bot for a server of over 100 users to play music or the audio of any video published on YouTube, increasing user interaction and attracting 30+ new members.
- Utilized discord-player framework in conjunction with discord.js API to facilitate music commands.
- Deployed the bot on Heroku to ensure it remains online 24/7.

Database Implementation | github.com/justinc0251/SCU/tree/main/COEN79

Aug 2023

- Engineered a dynamic array-based database system in C++ for efficient storage and management of company data and product details.
- Designed and implemented a linked list structure to facilitate the storage of product information for each company, optimizing memory utilization and enabling seamless addition and retrieval of data.
- Assembled essential constructors, operators, and destructors, ensuring proper memory management and data consistency in the database and company classes.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Java, HTML, CSS, Python, SQL, PHP, Verilog, Assembly

Frameworks/Technologies: React, React Native, Node.js, MongoDB, Express.js, AWS, Flask, Expo, Tailwind CSS, Next.js, Postman, Mapbox, AWS, Firebase, Netlify, Docker, RESTful APIs

Developer Tools: Git, Google Cloud Platform, Heroku, VS Code, Postman, Chrome DevTools