

Dung (Daniel) Dong

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Education

B.S. Computer Science

Graduation: May 2024

San Jose State University | College of Science

• GPA: 3.87/4.0

- Organizations: The Software and Computer Engineering Society at San Jose State
- Relevant Coursework: Data Structures and Algorithms, Mobile Application Development, Computer Networking, Cyber and Information Security, Database Management, Object-Oriented Design, Discrete Math

Experience

SJSU Software Engineering Summer Internship

San Jose, CA

Intern | SCE Music Discord Bot

June 2023- August 2023

- Created a music streaming discord bot for a school discord server with Discord.js and the ytdl-core Node.js library.
- Added support for commands to control the bot which included song search, pausing and managing a queue of songs.
- Integrated useful metrics to monitor the bot's performance with Prometheus, built monitoring dashboards with Grafana.
- Enabled searching for songs by using the play-dl Node.js library, returned the top 5 results for the user to select from.
- Oversaw and executed updates to the discord bot using Docker, Docker Compose and SSH.

Selected Independent Projects (More projects available at <https://github.com/dongtandung2001>)

Weather App

San Jose, CA

React, Javascript, Docker

May 2023 - July 2023

- Designed and developed a webpage to visualize current and future weather conditions at San Jose State University.
- Integrated the OpenWeather REST API to extract and display weather data given a zip code with JavaScript's fetch API.
- Deployed the webpage with Docker, Docker Compose and Linux onto a club website used by over 300 active members.

SQL4U

San Jose, CA

ReactJS, Express.js, AWS S3, AWS Amplify, MongoDB,

November 2022 - December 2022

- Led a team of 6 Computer Science students to build an online learning platform for database management with SQL.
- Built a RESTful API with Express.js to support CRUD operations for a MongoDB database hosted on MongoDB Atlas.
- Stored minified Javascript and HTML files for the website's content on S3, deployed the website with AWS Amplify.
- Deployed the Express.js REST API to production with AWS Elastic Beanstalk.

Vidly

San Jose, CA

ReactJS, Node, Express.js, MongoDB

September 2022 - November 2022

- Created a full stack web application to fully support a video rental service including user authentication with MongoDB.
- Utilized the bcrypt Node.js library to store user's login info, hashing passwords with salts to ensure data security.
- Implemented access levels to user accounts where Admins had the ability to edit and delete movies stored in MongoDB.
- Stored user authentication info with JSON Web Tokens (JWT) on the browser.
- Ensured the Express.js API received a valid JWT in the Authorization header with the jsonwebtoken Node.js library.

Song Searching API

San Jose, CA

Python, Flask, PostgreSQL, Heroku

October 2021 - November 2021

- Created a Python REST API using Flask to efficiently query over 200,000 songs stored in a PostgreSQL database.
- Added support for song search by specifying keywords from song lyrics, artist name and/or song title.
- Deployed the API publicly on Heroku, implemented interactions with PostgreSQL with the Python psycopg2 library.

Skills & Interests

- Languages/technologies: Proficient in Python, JavaScript, Git; familiar with Java, SQL; Experienced with Amazon Web Services, Json Web Tokens, Google Domains, Unix/Linux, PostgreSQL, MongoDB, Express.js, React.js.

Honors & Awards

- **SJSU Dean Scholar** – Awarded from the SJSU College of Engineering for exemplary GPA. January 2023
- **SJSU President's Scholar** – Awarded from the SJSU College of Engineering for 4.0 GPA. May 2022