Aaron, D'Souza

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Education

San Jose State University, San Jose, CA   *(Graduation- December 2024)*
Bachelor of Science in Computer Science (GPA: 3.48/4.0)
- **Honors**: *Dean's Scholar*
- **Relevant Coursework:** Intro to AI, Information Security Systems/Network Management, Object-Oriented Design/ Principles, Software Engineering, Operating Systems, Computer Architecture, Blockchain and Cryptocurrency, Database Management systems, Programming in x86 Processor Assembly Language, Data Abstraction and Structures, Discrete Mathematics

Projects

Local Delivery Service | Typescript, Angular, CSS, MySQL
- Developed a full-stack web application with a team to facilitate takeout services.
- Implemented zip-code-based takeout offers to encourage community-driven, efficient, and affordable takeout ordering.
- Employed Node.js/Express to handle backend logic from user authentication to data storage. Designed and used MySQL databases and BABEL to run, execute, and store user data, stores, menu items, and images.
- *Achievements*: Learned to implement Agile practices in a full-stack, team-based project setting. Gained experience working with Angular components, routing pages, UI/UX design in HTML and CSS, writing and integrating SQL queries with external APIs(Boom) for backend logic. Learned Typescript for handling backend and server-side logic.

AI Web Widget | React, JavaScript, HTML/CSS (In-Progress)
- Building an AI-driven Chrome extension to enhance web interactions, leveraging OpenAI's GPT-4o models for dynamic, context-aware responses on web articles.
- Using React to render the front end along with CRXJS for fast building, and HMR support for UI components. The widget will use either one of Open AI's GPT-4o or GPT-4o-mini models, processing HTML tags to become context-aware to provide quick and dynamic responses to user prompts.
- *Achievements*: Gained a better understanding of React development, state management, and API integration, particularly in AI-simulated environments. Ensured modularity of project architecture for future scalability and expansion. Learning to develop using Chrome API, navigating CRXJS framework and HMR-based development using Vite.

Speech Recognizer | Spring, Java, REST, CRUD
- Created a simple speech-to-text program using Assembly AI's API to transcribe audio files.
- Used Google's GSON dependencies to convert responses from Assembly AI's server into JSON for further requests and data transcription. Gained experience with CRUD operations and fundamentals.
- *Achievements*: Learned to navigate new API specifications and assess capabilities relevant to a project. Acquired a thorough understanding of manipulating JSON data sets and gained familiarity with REST API. I plan on using the project as a blueprint for larger AI-facilitated projects.

Technical Skills

- **Languages**: Java, JavaScript, C++, Python, SQL, HTML/CSS
- **Frameworks**: NodeJS, ReactJS, ExpressJS, Typescript, Angular
- **Developer Tools/ Libraries**: Git, Github, Docker, Pandas, Matplotlib, Unix/Linux

Experience

Server | Part-time | Rooh, Palo Alto   *(June 2021- Present)*
- Provided personalized dining experiences by taking orders, timing courses, pairing wines with dishes, running beverages, and recommending dishes tailored to individual customer liking. Addressed guest concerns when needed to ensure satisfaction and a welcoming dining atmosphere. Trained and mentored new staff, fostering a positive and professional environment.

Photography and Videography Production   *(December 2024- Present)*
- Currently assisting my dad in a new photography and video startup. Marketing content to promote social events of clients, assisting with all stages of the creative process from pre-event planning to seeking iterative client feedback during post-event video and photo editing. Balanced editing projects with tight deadlines.