Allen Tran

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Education

San Jose State University **Aug 2021 – May 2023**
B.S. Computer Science | College of Science
De Anza College **Sept 2019 - Aug 2021**
- **Cumulative GPA: 3.91**

- **Certifications:** IBM Certifications: IBM Cloud Essentials, IBM Design Thinking; Microsoft Certifications: MS Intro to Artificial Intelligence, MS Azure Fundamentals (AZ900)

- **Student Organization Involvement:** Public Relations and Development Team Officer at SJSU Software & Computer Engineering Society, ICPC Participant at SJSU Competitive Programming Club

Languages & Technologies

- Python, Java, JavaScript, Node.js, React.js, AWS, SQL, HTML/CSS, C++, Git, APIs, Data Pipelines, Docker

Experience

Mastercard Mentorship Program
Program Mentee *September 2021 - Present*
- Selected to receive industry mentorship and coaching from Mastercard engineers through workshops and 1:1 sessions

SJSU Software & Computer Engineering Society
Development Team Officer & Mentor *September 2021 - Present*
- Replaced gRPC solution with REST API to improve printing infrastructure, impacting 1500+ club members
- Created printing queue with **AWS SQS** that reads from **AWS S3** to increase PDF size support from 256KB to 10MB
- Utilized **Node.js, Express.js, and Docker** to implement printing server, enabling **VM** to communicate with printer
- Reduced 1000+ lines of code into less than 100 lines with reliable technologies for scalability and maintainability

IBM Good Tech Scholars Program *https://github.com/orgs/GTSP-Caffeine-Overflow/repositories*
2nd Place Winner *June 2021 - August 2021*
- Designed, built, and delivered a solution to contribute to the global crisis of clean energy in an **agile** environment
- Utilized **IBM cloud computing**, **BestBuy API**, **JavaScript, and React.js** to develop Chrome Extension and web app
- Demonstrated knowledge of data fetching with various APIs and created a user-friendly experience on the front-end
- Queried and stored data with **Cloudant DB** through orchestrating **Node-RED** flow that performs JavaScript functions

San Jose State University *https://github.com/SCE-Development/Skylab-Explorer*
Data Engineering Intern *June 2021 - August 2021*
- Developed a **data pipeline** to perform data analytics on full-stack website for executive board to make decisions
- Orchestrated database schemas demonstrating knowledge of **normalization** and **denormalization**
- Created graphs with **React.js** to visualize aggregated data in selected date ranges
- Constructed **ETL's** that accept and process data into **AWS RDS** database to allow for **back-end analytics**
- Developed a **REST API** to query from the data warehouse for data analysis and visualization purposes

Personal Projects

Drop It! - Mock Google Drive Application *https://github.com/allen-tran/Drop-It*
Full-Stack Developer *December 2021*
- Individually developed drop box application allowing users to upload, edit, view and download files locally
- Constructed **Node.js** server enabling file upload to **S3 bucket** and user storage into **MySQL database**
- Implemented two-factor-authentication with **AWS Cognito** and **AWS Amplify** to securely log users in and out

Matricks! - Linear Algebra Solver *https://github.com/allen-tran/Matricks*
Back-End and Front-End Developer *May 2021*
- Utilized **Python** and **NumPy** to perform complex mathematical calculations with custom user-inputted matrices
- Students can reduce tedious work that could take up to hours down to seconds with this application
- Integrated program into web application using **Flask** framework to allow for smooth and convenient user experience

Social Network - Mock Facebook Program *https://github.com/allen-tran/Social-Network*
Back-End Developer *February 2021*
- Utilized abstraction and data structures in Java to perform CRUD operations to simulate social media features
- Stored accounts and friends into **graphs, hashed dictionaries, heaps, array lists, stacks, and linked queues**
- Allows users to create profiles, make new friends, update their status, and change login information