Allen Tran

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Education

San Jose State University – B.S. Computer Science	*Dept. of Computer Science*	**Aug 2021 – May 2023**
De Anza College – Computer Science	**Sept 2019 – Aug 2021**

● **GPA: 3.93/4.0**

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

● **Leadership & Organization Involvement:** Public Relations and Software Development Team Officer at SJSU Software & Computer Engineering Society, Member of SJSU Competitive Programming Club, TikTok educating thousands on how to code (500,000+ views)

Technical Skills

● Languages: Python, Java, JavaScript, TypeScript, C++, C#, HTML/CSS
● Tools & Technologies: Node.js, React.js, Next.js, Express.js, AWS, SQL, Git, APIs, Docker, MongoDB

Experience

SJSU Software & Computer Engineering Society
Software 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 *[GitHub Repository](#)*
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 *[GitHub Repository](#)*
Software Engineer Intern   *June 2021 - August 2021*
● Developed **REST API** using Express.js to query from data warehouse to perform analytics on full-stack website
● Built **CI/CD pipeline** allowing developers to automatically deploy their pushed code utilizing **GitHub Actions**
● Created web dashboard with **React.js**, **TypeScript**, and **Next.js** to visualize aggregated data in selected date ranges
● Constructed **ETL** lambda functions that accept, and process cleaned data into **RDS** database using Python and AWS
● Designed and implemented **Star database schema**, demonstrating knowledge of normalization and denormalization

Target
Sales Associate & Cashier   *Oct 2020 – March 2021*
● Sold electronics, answered questions, pushed products to the sales floor, and rang customers up

Personal Projects

Drop It! - Mock Google Drive Application *[GitHub Repository](#)*
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

Reverb! - Mock Spotify Song Player *[GitHub Repository](#)*
Full-Stack Developer   *December 2021*
● Full-stack mock Spotify application allowing users to upload their local music files and enable offline listening
● Utilized **TypeScript**, **Next.js**, and **React.js** with custom components to closely replicate complex user interface
● Implemented playlist, user, artist, and song schemas using **Prisma ORM** with **PostgreSQL db** hosted by **Heroku**

Social Network - Mock Facebook Program *[GitHub Repository](#)*
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