**EDUCATION**

**California State University, Sacramento**  **December 2019**

B.S Computer Science Dean's Honor Roll

**TECHNICAL SKILLS**

**Programming Languages:** JavaScript, TypeScript, Java, C/C++, Python

**Frameworks and Databases:** React, React Native, NodeJS, Tkinter, MySQL, PostgreSQL, GoogleSQL, Android Development

**Tools:** Git, Postman, AWS (Athena, Glue, S3, SQS, Lambda, DynamoDB, CloudWatch), NewRelic, Splunk

**WORK EXPERIENCE**

**Software Engineer II,** Sparrow Lending, New York City, NY **01/2022 – Present**

* Lead backend software engineer and architect for PAAAS (Preapproval-as-a-service), a white-label student loan marketplace. Developed and launched MVP within 6 months.
* Used TypeScript/NodeJS to design and build scalable APIs on AWS Lambda and DynamoDB to serve 100k+ students.
* Designed logic to calculate monthly analytics, processing raw data into quantifiable metrics for clients using Athena/Glue.
* Implemented secure file storage solution to protect user and company data using Terraform to deploy Trend Micro on S3.
* As lead engineer I conducted code reviews, sourced and interviewed candidates, and grew backend team by 40%.

**Software Engineer,** Google, Mountain View, CA **07/2020 – 09/2021**

* Solely responsible for designing and developing system to display Store Hours on Chrome on Android’s recent tabs page.
* Utilized test driven development to build out and deploy the feature in less than 4 months.
* Development was primarily done in Java, with some native Android C++ work
* This is a user-facing feature which will be available to 1+ billion users. Chrome for Android is an open-source product.

**Software Engineer,** Realtor.com, Santa Clara, CA **02/2020 – 06/2020**

* Developed Market Reach as Backend Engineer as part of the Platforms and Monetization team
* Wrote NodeJS application to compile and calculate statistics and metrics, and send weekly email performance reports to agents and brokers
* Improved performance by improving time efficiency of processes through reducing API calls and adjusting SQL queries.

**Software Engineer,** Redtail Technology, Sacramento, CA **08/2019 – 01/2020**

* Implemented RxJS library in product to for a 100% improvement in time performance and to prevent race conditions.
* Wrote end-to-end tests to prevent regressions using Cypress testing framework.

**Software Engineer Intern,** Redtail Technology, Sacramento, CA **05/2019 – 08/2019**

* Developed room booking app with TypeScript and React for internal use by Redtail Technology employees.
* Implemented calendar functionality using FullCalendar library and React component composition.
* Implemented CRUD actions for room bookings using AJAX calls to Redtail API.
* Improved perceived loading performance by prioritizing AJAX requests by room popularity.
* Ensured persistence of room preferences through use of local storage

**RELEVANT EXPERIENCE AND PROJECTS**

**Twitter Bots 2021 – Present**

* I build Twitter bots for fun using Python and the Tweepy library.
* On average these bots receive ~2400 requests/day and have served over 500k users to date.

**Controls and Power Team Lead,** Hornet Hyperloop,CSUS **12/2017 – 12/2019**

Managing a team of 30+ engineers and programmers in the Hornet Hyperloop club.

* Built scaled-down prototype focused on automation of travel for purposes of Hyperloop Pod Competition hosted by SpaceX.
* Worked on physical design and implementation of pod control system electronics.
* Oversaw and assisted with implementation of pod controls and data acquisition using peer to peer network (CAN BUS) which resulted in increases in product efficiency and performance.
* Invited to SpaceX to present in Hyperloop Competition III & IV in 2018 & 2019 and aiming at breaking 350+ mph for Hyperloop Competition V in 2020.

**Python Bulk SMS Messaging Application**  **2019**

* Fulfilled business need of family restaurant to send low-cost bulk SMS messages.
* Wrote full stack Python application with GUI to allow business owners to message customer base.
* Interfaced with GSM modem using AT commands.