

# TALAL JAWAID

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U.S Citizen

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## EDUCATION

California State University, Sacramento  
B.S Computer Science

December 2019  
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.