

# 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

Georgia Institute of Technology  
M.S Computer Science

2023

## 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 (Elastic Beanstalk, Athena, Glue, S3, SQS, Lambda, DynamoDB, CloudWatch), NewRelic, Splunk, Google Cloud GCP (Cloud Run, Cloud Functions), Looker, Google Analytics, GraphQL

## WORK EXPERIENCE

**Software Engineer**, Tomocredit, San Francisco, CA

August 2022 – Present

- Backend-oriented full-stack software engineer focusing on operations and automation. Primarily worked with JavaScript, NodeJS, GraphQL, and React. Postgres DB and AWS (Elastic Beanstalk, EC2, Lambdas) for cloud services.
- Designed and implemented automation and move of internal tooling to EC2, leading to a 20% increase in available engineer time.
- Built email and push notification platform to send instant updates to customer regarding data sent by payment processor.
- Identified and resolved several high priority security vulnerabilities affecting customer data.

**Software Engineer II**, Sparrow Lending, New York City, NY

Jan 2022 – July 2022

- 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

July 2020 – September 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

February 2020 – June 2020

- Developed Market Reach as Backend Engineer as part of the Platforms and Monetization team
- Built email and analytics platform in NodeJS 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 Intern**, Redtail Technology, Sacramento, CA

May 2019 – January 2020

- 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.
- 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.

## RELEVANT EXPERIENCE AND PROJECTS

**Controls and Power Team Lead**, Hornet Hyperloop, CSUS

2017 – 2019

- Built scaled-down prototype focused on automation of travel for purposes of Hyperloop Pod Competition hosted by SpaceX. Managed a team of 30+ engineers and programmers in the Hornet Hyperloop club.
- 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 to allow businesses to message customers 90% cheaper than market options.
- Interfaced with GSM modem using AT commands.