TALAL JAWAID

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U.S Citizen **GitHub:** https://github.com/Talal916

EDUCATION

California State University, Sacramento **December 2019**
B.S Computer Science Dean's Honor Roll

Georgia Institute of Technology **2023**
M.S Computer Science

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 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**
- Addressed the business requirement of a family-owned restaurant for cost-effective bulk SMS messaging.
- Developed an end-to-end Python application enabling businesses to send messages to customers at 90% lower cost compared to market alternatives.
- Integrated with GSM modem utilizing AT commands for seamless communication.