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, 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**
- Full-stack software engineer with a focus on backend operations and automation, primarily working with JavaScript, NodeJS, GraphQL, and React. Utilized Postgres DB and AWS (Elastic Beanstalk, EC2, Lambdas) for cloud services.
- Developed and executed the migration of internal tooling to EC2, resulting in a 20% increase in engineering productivity.
- Created an email and push notification platform to deliver real-time updates to customers regarding payment data.
- Addressed and rectified multiple high-priority security vulnerabilities impacting customer information.

Software Engineer II, Sparrow Lending, New York City, NY   **Jan 2022 – July 2022**
- Lead backend software engineer and architect for a white-label student loan marketplace. Successfully launched MVP within six months.
- Used TypeScript/NodeJS to design and build scalable APIs on AWS Lambda and DynamoDB to serve 100k+ students
- Devised logic for calculating monthly analytics, transforming raw data into actionable metrics for clients using Athena/Glue
- Implemented a secure file storage solution to safeguard user & company data, deployed Trend Micro on S3 via Terraform
- As project lead, conducted code reviews, sourced and interviewed candidates, and expanded the 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
- Applied test-driven development in Java and Android Native C++ to build and deploy the feature in under four months.
- Designed a solution to allow multiple payment methods for different countries for Google Domains, enhancing user experience and potentially increasing sales.
- Collaborated with cross-functional teams, ensuring seamless integration with existing payment system.
- Developed a migration strategy and data fixes to ensure smooth transition and compatibility with current user data structures.

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
- Constructed an email and analytics platform in NodeJS to compile statistics and metrics, delivering weekly email performance reports to agents and brokers.
- Enhanced performance by optimizing processes through reducing API calls and refining SQL queries

Software Engineer Intern, Redtail Technology, Sacramento, CA   **May 2019 – January 2020**
- Developed room booking React TypeScript application, currently in daily use by Redtail employees.
- Utilized FullCalendar, Local Storage, and Cypress Test Framework to develop stable and consistent experiences across a multitude of devices.
- Implemented RxJS library for a 100% improvement in time performance and to prevent race conditions

PROJECTS

Twitter Bots   **2022**
- Developed two highly popular and successful Twitter bots using TypeScript, Python, Google Cloud Functions, and the Twitter API, achieving over 500k users.

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 technical design in Hyperloop Competition III & IV in 2018 & 2019.

Customer SMS Messaging Application   **2019**
- Developed an end-to-end Python application enabling businesses to send bulk messages to customers at 90% lower cost compared to market alternatives.
- Integrated with off the shelf GSM modems, utilizing AT commands for seamless communication.