

Paul Muehleip

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Technical Experience

PostApp

South Jordan, UT

Founder / Solo Project (Backend + Mobile)

Jan 2022 – Present

- A cost effective mobile app that allows people to ship their packages without ever having to leave their home.
- Architected the serverless AWS backend and React Native mobile app that works with both IOS and Android.

Route

Lehi, UT

Skills: Go, Python, HTML/CSS, AWS (DynamoDB, RDS, SQS, SNS, ECS, IAM, CloudWatch, Lambda), PostGreSQL, Terraform, Docker, JQuery, Gitlab CI/CD, Sumo Logic, Tableau, Metabase, Jira, Mac, RESTful API, Agile, Scrum

Software Engineer II (Backend)

Apr 2022 – Dec 2022

- Worked on one of Route's core systems (horizontal auto scaling and event-driven architecture) to orchestrate over 1m hourly tracking updates across 75+ shipping carrier microservices.
- Introduced a mobile interception technique (SSL unpinning) resulting in the discovery of (1) an API endpoint saving Route \$555,014 a year for its 2nd largest carrier in tracking volume (2) an API endpoint for a carrier quoted as "Route's single largest blocker to EU expansion".
- Trained the team as the web scraping SME on various techniques, DOM parsing, user detection avoidance (proxy and HTTP request analysis), headless browser fingerprint spoofing, and MITM mobile interception.
- Wrote code to provision AWS infrastructure and common terraform modules to support services in the cloud.

Software Engineer I (Backend)

Dec 2020 – Apr 2022

- Reduced the SDLC development time of new carrier microservices by 60% through AWS infrastructure automation using terraform, developing libraries, meta programming, and creating project templating scripts.
- Discovered a memory leak causing 75+ ECS microservices to crash every few hours.
- Created highly testable code by utilizing dependency injection, test-driven development, and table-driven tests.
- Helped build a variety of new services including: RESTful APIs (sync and async), micro service integrations, a web hook service, scheduled jobs (with CloudWatch Events and AWS Lambda), and a PII Service.

Software Engineer Intern (Backend)

May 2020 – Dec 2020

- Decreased application startup and test time by 600% by restructured the Docker Compose configuration.
- Architected the CI/CD system tests with a mock API server against a time dependent multipart system.

University of Utah

Salt Lake City, UT

Skills: Java, JavaScript, TypeScript, HTML/CSS, MySQL, React, Angular, Docker, Git, Jira, Linux, Agile, Scrum

Software Engineer Intern (Full Stack)

Apr 2018 – Aug 2019

- Developed a full photo API service which has since been integrated by multiple University applications as well as to resize, reformat, and save the photo of every new student and employee.
- Implemented over 40% of the front end of the University's Ugive web application while simultaneously teaching myself Angular, Typescript, and Bootstrap over a 4-month period.

Education

University of Utah

Salt Lake City, UT

B.S. Computer Science, Top 10% (Honors), GPA 3.9, AI and Data Track Aug 2016 – Dec 2020