Grant Azure

Principal Software Engineer

CONTACT

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EDUCATION

University of Washington
Bachelor of Science
Computer Science
2015

CAREER HIGHLIGHTS

Highlight: Optimized email parsing service reducing annual operational costs by $500k

Highlight: Transitioned organization from legacy monolith to micro services

Highlight: Spearheaded transition to service mesh

EXPERTISE

➢ Python

➢ JavaScript

➢ AWS

PROFESSIONAL SUMMARY

Principal Software Engineer with 9 years' experience delivering scalable software solutions. Spearheaded the strategy and execution required to transition TripIt to a service mesh. Improved service and site reliability from ~95% uptime to 99.9%. Eager to continue to deliver tangible results and drive growth in this role.

EXPERIENCE

SAP Concur (TripIt) - Bellevue, WA
Principal Software Engineer, Mar 2022 – Aug 2024

Provided technical leadership in cloud infrastructure, security, and cost optimization for a large-scale product. Drove innovation through the adoption of modern technologies and practices, ensuring system scalability, security, and operational efficiency. Collaborated with cross-functional teams to lead and mentor engineering teams, resulting in improved performance, reduced costs, and enhanced security posture.

- Spearheaded service mesh adoption by architecting and deploying service mesh for Python, JavaScript, and PHP microservices, utilizing mTLS to secure inter-service communication.
- Initiated cross-organization cost-reduction initiative on Tripit's email parsing service, cutting annual operational expenses by $500k through performance optimization and infrastructure right-sizing.
- Conducted comprehensive security reviews, managed CVE remediation processes, collaborated with cross-functional teams to review system architectural designs.
- Transitioned core services and development teams to Python 3.12, improving system compatibility, performance, and long-term maintainability.

SAP Concur (TripIt) - Bellevue, WA
Senior Software Engineer, Mar 2018 – Mar 2022

Led infrastructure and service modernization effort for TripIt, including the migration from a legacy data center to AWS.

- Completed TripIt from a legacy data center to AWS, ensuring minimal service disruption
- Implemented a multi-region data governance routing solution for all services, ensuring compliance with GDPR by securely storing and processing EMEA data in AWS EU regions
- Migrated Tripit legacy authentication to new service and wrote OAuth1 to OAuth2 upgrade path for internal clients
- Built Python / PHP service bridging solutions to facilitate decomposition of legacy monolith into microservices

KEY SKILLS

JOB SPECIFIC

➢ REST

➢ Django

➢ SQL

➢ HTML/CSS

➢ Rust

INTERPERSONAL

➢ Communication

➢ Collaboration

➢ Adaptability

➢ Empathy

ADMINISTRATIVE

➢ Git / GitHub

➢ Jira / Confluence

EXPERIENCE CONTINUED

SAP Concur (TripIt) - Bellevue, WA
Software Engineer, Oct 2015 – Mar 2018

Contributed to the development and scaling of critical microservices for TripIt, such as itinerary management and communication systems. Delivered innovative features like the "Go Now" notification system and contributed to the early implementation of TripIt's cloud architecture using AWS services. Led efforts to migrate microservices to a containerized development and testing solution, improving efficiency and consistency across the development lifecycle.

- Contributor to TripIt's "Go Now" feature; wrote JavaScript/Express communication microservice using AWS SES/SNS/SQS
- Developed early implementations of TripIt's cloud architecture utilizing ECS/EC2/Lambda and AWS Aurora MySQL.
- Python/Django/MySQL microservice for itinerary management.
- Migrated microservices to containerized (Docker / Docker Compose) development, integration testing solution