

EXPERIENCE

Ally Financial

Principal Software Engineer

Remote

January 2022 – Present

- Developed and deployed business-critical backend APIs in Node.js using AWS serverless architecture, ensuring scalability, resilience, and cost-effectiveness.
- Architected and executed a multi-region API strategy, ensuring high availability via Route53 and AWS Lambda-based health checks for automatic failover. Implemented cross-region resource replication provisioned with Terraform to guarantee seamless infrastructure deployment and disaster recovery.
- Designed and deployed event driven architectures allowing for real time updates from multiple data sources and the reduction of downstream dependencies to reduce API response times by 25%.
- Deployed new serverless data pipeline infrastructure using AWS Glue to hydrate production databases with over 10 million customer records, further optimizing large-scale data management processes.
- Deployed AWS Opensearch infrastructure, providing flexible and scalable full-text search capabilities for customer information across multiple lines of business.
- Refined unit and integration test suites, achieving over 95% coverage to significantly improve code reliability and reduce regression risks.
- Improved the CI/CD experience using GitLab Runners hosted in AWS EC2, providing consistent build, test, and deployment pipelines to significantly reduce overall development time.

The MITRE Corporation

Senior Software Engineer

Eatontown, NJ

June 2018 – January 2022

- **Photon Signal Processing Framework**
 - Deployed and orchestrated containerized ELK (Elasticsearch, Logstash, Kibana) stack clusters for high volume data ingestion and analysis using Docker and Kubernetes hosted across multiple AWS EC2 instances.
 - Developed REST APIs using Python/Flask for configuring and tuning high-performance Software Defined Radios, enabling real-time wideband signal processing and channelization.
- **ACE (Accessible Communications for Everyone) Direct**
 - Designed and developed full-stack web applications, leveraging WebRTC to facilitate user video communication and videomail capabilities.
 - Reduced application server requests by 50% and improved page load times by 73% by introducing caching layers and asset compression.

EDUCATION

Georgia Institute of Technology

Master of Science – Computer Science – **GPA: 4.0**

Remote

January 2021 – May 2024 (Estimated)

Rutgers University

Bachelor of Science – Computer Science

New Brunswick, NJ

January 2015 – May 2018

PROJECTS

Fastmail Masked Email Manager

A web extension leveraging Typescript, React, and Tailwind CSS allowing users to easily manage their Fastmail Masked Emails

TECHNOLOGIES / LANGUAGES

Languages: Java, Python, JavaScript/Typescript

Technologies: AWS Serverless, Lambda, DynamoDB, EventBridge, SQS/SNS, Datadog, MySQL, Git, Docker, Node.js, Linux, Elasticsearch, Logstash, Kibana, Flask, Terraform