

Samuel Tran

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EXPERIENCE

MGM Resorts - Software Engineer

Las Vegas, NV

September 2021 – Current

- Leading the CrowdStrike IOMs initiative to address and resolve cloud security misconfigurations across all **Azure**, **AWS**, and **GCP** accounts and subscriptions, aimed at significantly enhancing the security posture of our entire cloud infrastructure.
- Developed the Apigee X forwarding proxy for external/third-party APIs using **JavaScript** and policies to control all outbound traffic and onboarding all internal services as part of the API security hardening initiative.
- Led the migration of 300+ API proxies and associated Apigee infrastructure from Apigee Edge to **Apigee X**. For one critical service, reduced average response time by 18% (from 391ms to 318ms). Coordinated with 30+ teams to integrate solutions into their roadmaps, ensuring seamless transitions for internal services handling millions of daily requests.
- Developed and standardized automated deployments for Apigee X proxies using OpenAPI spec files from internal services, leveraging **C#**, **GitHub Actions**, and **Azure DevOps**.
- Developed custom Apigee proxies beyond our standard deployments by partnering with teams, to address unique requirements such as multi-target endpoint routing, API policies, traffic management, and security configurations. Additionally, provided connectivity solutions for our inbound closed network, including mTLS, private routing, IP whitelisting, and public endpoints through **Akamai**.
- Designed and developed a Cloud Reporting Service with **C#** to automatically query and report data about **Azure** and **AWS** Cloud Resource Utilization; capturing over a thousand records of underutilized cloud resources, reducing cloud costs and improving cloud hygiene.
- Designed and implemented Support Chat Bot features using **C#** to automatically send notifications for critical alerts from OpsGenie to Microsoft Team's channels, servicing hundreds of on-call engineers daily, and created database structure using **Azure Table Storage** to store alert information and state objects of Microsoft Team's conversations.
- Collaborated with internal teams to add custom features for Chat bot to call API services, query **Oracle SQL** database for customer/reservation data, and implemented service-based authentication.
- Designed and implemented a **C#** feature for an alert management service that processes events from OpsGenie webhooks via Event Grid, handling alerts (creation, updates, deletions) and updating real-time messages in our Chat Bot Channel.
- Developed **GraphQL** schemas and resolvers in **TypeScript** to support efficient data retrieval for alert management service and telemetry service.
- Created and executed unit/integration tests for services using **NUnit** and **Moq** frameworks.

General Motors - Software Developer

Austin, TX

October 2020 – September 2021

- Developed API service that would track points that are earned or redeemed by a customer's order with **Java**; servicing the four major brand websites and individual onboarded dealerships.
- Designed **SQL** queries using **Oracle SQL Developer** to reduce execution time when retrieving customer information from on-premises databases.
- Optimized web service REST API by consolidating multiple endpoints into one call and updating the response.
- Maintained and supported B2B and B2C eCommerce applications by resolving defects and deploying patch sets.
- Audited **Fortify** security scans to identify critical issues or vulnerabilities during development.

EDUCATION

Texas A&M University - B.S., Major in Applied Mathematics, Minor in Computer Science

College Station, TX

May 2020