

Roohanjyot S. Sidhu

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PROFESSIONAL SUMMARY

Performance-driven Backend Engineer focused on high-scale GraphQL infrastructure specializing in full-stack development, API optimization, and automated testing frameworks. Proven track record at American Express, reducing API latency by 80% and driving enterprise-scale architectural modernizations. Adept at leveraging data analytics to guide engineering decisions. Skilled in React, Node.js, GraphQL, and Cloud Infrastructure.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), Java, Python
- **Frameworks & Libraries:** Node.js, GraphQL, React.js, Spring Boot
- **Data & Infrastructure:** Docker, GitHub Actions, CI/CD Pipelines
- **Concepts:** Performance Analysis, RESTful APIs, Microservices, Agile

PROFESSIONAL EXPERIENCE

American Express | Phoenix, AZ

Software Engineer I | *September 2023 – Present*

- **Optimized Critical API Architecture:** Led a full refactor of business-critical API integration by implementing batching and eliminating N+1 query patterns, reducing API based **outbound call latency by 80%**
- **Efficient API Strategy:** Reduced the encryption-based **FaaS volume by 85%** for key consumer journeys by caching high-volume keys.
- **Driving Enterprise Modernization:** Partnered with client and SOR teams to deliver foundational updates for initiatives with tight deadlines, deploying highly **performant solutions from scratch in 5 weeks**.
- **High-Volume Delivery:** Exceeded annual goals by delivering **56+ PRs in 2025** (12% YoY increase), including 11 platform-focused improvements to CI/CD pipelines and observability.
- **Microservices Development:** Contributed to the MVP setup of the GraphQL-based Subgraph, establishing the code, build environment, and deployment pipelines using a natively hosted cloud service.

Junior Engineer | *May 2022 – September 2023*

- **Process Engineering:** Established a standardized "Deprecation Protocol" and tracker, eliminating ambiguity around technical debt and clarifying lifecycle management for the product team.
- **Engineered Enterprise Testing Infrastructure:** Initiated and built the first automated performance and regression testing suites in my team using GitHub Actions, covering use cases for top consumers and ensuring scalability across multiple domains.
- **Leadership & Knowledge Sharing:** Selected to present at DevCon on "Automating Performance Testing," championing enterprise-first solutions and cross-team collaboration.

EDUCATION

San Jose State University | San Jose, CA | *B.S. Information Science and Data Analytics*

Diablo Valley College | San Ramon, CA | *A.S. in Computer Science*