

# Prasanna Prakash

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## SUMMARY

Experienced Software Development Engineer with 6 years at Amazon, specializing in Problem Solving, Distributed Computing and Large-scale System Designs. Proven track-record of leading projects with high availability and throughput requirements. Proficient in Java, Python, TypeScript, and Rust. Committed to fostering innovation, team growth and raising the bar for operational excellence through effective collaboration.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer | AWS API Gateway | Seattle, WA | December 2021 - Present

- Leading a team of 5+ developers, designed and partitioned existing multi-tenant data plane architecture, achieving a 99.95% uptime service-level agreement and mitigating noisy neighbor issues.
- Collaborated with cross-functional teams to reduce partitioned fleet scaling time from days to hours, enabling handling of over 2 million requests per second during peak events.
- Transitioned the large-scale distributed data plane infrastructure from CloudFormation (in YAML) to AWS CDK (in TypeScript), fostering innovation with automated snapshot testing for infrastructure code reviews to prevent outages.
- Led a team of 2 to enhance Availability Zone evacuation processes, cutting evacuation time from over 4 hours to a 15-minute SLA and significantly boosting availability during AZ outages.
- Addressed and mitigated key security vulnerabilities in REST and WebSocket APIs, ensuring comprehensive risk mitigation for API Gateway customers.
- Coordinated with project managers to communicate changes to external customers, and ensured safe releases following rigorous operational readiness checklists.

### Software Development Engineer | Alexa AI | Seattle, WA | August 2018 - December 2021

- Led a team of 3 senior developers to design and implement a centralized workflow management service, standardizing workflow executions, permissions, contracts, and deduplication for 20+ high-throughput Alexa ML workflows across multiple teams.
- Streamlined the skill development lifecycle, reducing the time from over 2 weeks to just 2 days by implementing a new automated ML workflow in close collaboration with Principal Engineers across more than 5 teams.
- Supported 5 research scientists in improving Alexa third-party skill accuracy by provisioning a secure sandbox environment for skill evaluation.
- Mentored an intern on the Alexa Skill Translation feature, reducing the effort required to launch existing skills in a different language from 2-3 weeks to just a few hours.
- Facilitated third-party Alexa skill development by launching three new locales—Spanish (es-US), Hindi (hi-IN), and Portuguese (pt-BR)—targeting high-density markets.
- Conducted multiple knowledge sessions on different Alexa components and services to support team growth.

## PROJECTS

### Open Source Contributions | Raycast | [raycast.com/stelo](https://raycast.com/stelo)

- Enhanced 16 productivity applications such as Homebrew, Github, Linear, Slack, Things, Todoist etc. serving over 300k users.
- Contributed to both Raycast extensions and utilities repositories by resolving over 20 open issues and raising over 30 pull requests.
- Developed 2 new extensions, applying software development best practices such as caching and optimistic updates to deliver high performance and an optimal user experience.

## SKILLS

**Languages:** Java, JavaScript, Python, Rust, TypeScript

**Frameworks:** Astro, AWS, CDK, Databricks, Git, Gradle, GraphQL, JUnit, Node JS, NoSQL, React, REST, Spark, SQL, Terraform, TestNG, Unix/Linux

**Others:** API Development, CI/CD, Distributed Computing, Infrastructure as Code, Large-Scale System Design, Microservices, Test-Driven Development

## EDUCATION

**Bachelor of Science in Computer Science | Drexel University | Minor in Finance | CGPA: 3.82**

Philadelphia, PA | Graduated: 2018