

Anantha Kandrapu

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Open-source Contributions

- Bug fix in huggingface/tokenizers library
- Added Bedrock-Cohere model as embedding provider for continue vs-code extension

Professional Experience

Amazon Inc (Jul 2023 - Present)

Project Unified Throttling (Q4/2024)

- Design and develop a throttling system based on SLA for all the 60 microservices contra owns
- Add capability to take automated actions (filtering, throttling, scaling based on traffic)
- Centralize visibility of all the services (involves reporting bottlenecks)

Project Horizon (Q3/2024) *Backfill data between elastic search clusters*

- Developed throttling solutions that can prevent high severity events
- Created efficient solutions to validate the backfilled data
- Backfilled 2.5PB in a region of seller's product data between elastic search clusters.

Project Horizon (Q2/2024)

- Migrated from standard to infrequent log groups using fire-lens, saving \$500K in CloudWatch cost.
- Implemented an optimization which would allow us to get data from an alternative source which reduced our input TPS without any customer impact saving \$130k /year.

Low Sev Reduction (Q1/2024)

- Reduced incoming tickets by 33% per year through pattern analysis resulted in customer satisfaction and reduced load on operators. Created Cron-jobs which periodically sync data from upstream.
- Developed dynamic throttler for automated throttling based on input traffic.
- Created RAG-based solution using AWS Step-Function and Bedrock API for ticket triage

Scrum Master

- Scrum Master for my team for over 18 months, where I organize meetings update sprints

Contra OPS and Tooling (Jul - Dec 2023)

- Migrated Ops tools from HTTP to HTTPS using VIPs
- Developed tool for Operational Excellence reports, saving 300+ hours annually

Amazon Inc (May 2022 - Aug 2022)

Project Contra-Sherlock

- Built cross-account log tracing infrastructure for customer key tracking and custom log tracing across 60 services, with a query interface.

Technical Knowledge

Languages: NodeJS(TS), Java, Python, CPP, ReactJS, Rust, Spark

Tools & Infrastructure: AWS Services (Kinesis, SQS, ECS, OpenSearch, VPC networks, BedRock, Sage Maker , API Gateway, DDB), AWS CDK((Infrastructure as Code), Lang-Chain, Testing Frameworks, Spark SQL.

Education

Arizona State University

Master's in Computer Software Engineering (2021 - 2022)

- Developed neu-morphic components in React with MongoDB integration
- Created UML diagram creator application using Java Swing