

AASHISH KUMAR

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Experience

Flash AI	Dec 2024 - Present
<i>Software Development Engineer</i>	Bangalore
<ul style="list-style-type: none">Redesigned IMAP service, decoupling mail fetch events, auto-retry, configurable domains, improved wait times by 76%Overhauled email compose flow, reducing errors by 25%, and migrated the mail list API to ES, cutting latency by 60%Enhanced observability incorporating OTEL across 28 services, transitioning from CW to Last9, reducing costs by 30%Migrated mime data from RDS to S3 with Lifecycle policy, reducing storage costs by 55%, and halved S3 write costsRe-engineered email table with nested partitions, deleted 2B promotional mails from S3/DB, resulting 66% cost saveOptimized infra costs by right-sizing ECS/RDS cluster, S3 Glacier archival, Subnet restructuring, yielding 38% cut	
RootQuotient	Jun 2023 - Dec 2024
<i>Software Development Engineer</i>	Chennai
<ul style="list-style-type: none">Created APIs to migrate Cancer Registry System from PL/SQL SPs & Triggers to TS, with SQL Server & PrismaPorted .NET Web Services using RPC client and SOAP APIs with WSDL in Node.js, consuming DLLs through FFIScheduled cron job consuming HL7 documents with locks and configurable interval, scaled to cluster threads via IPCWrote unit & integration test suites with a coverage of 85%, optimized on-premise infra using Grafana's K6 perf testsConfigured build & release pipelines, with coverage reporter, static code analyzer, deploying to IIS with Azure agents	
Amazon	May 2022 - Jul 2022
<i>Software Development Engineer Intern</i>	Bangalore
<ul style="list-style-type: none">Designed UUID for CGS Dashboard versioning and improved cadence from weekly to every second, in the EMR jobRevamped Audit Log DynamoDB to store metadata for the dashboard, tracking published versions in CGS Version UIReengineered the CSV View to render the dashboard directly from S3, eliminating the cost of maintaining the DDBDevised CSV diff algorithm to compare dashboard versions by primary index, providing list of changes to stakeholders	

Technical Skills

Programming Languages: Java, Golang, Python, C++, JavaScript, TypeScript, SQL

Frameworks: Spring Boot, FastAPI, Gin, Express.js, LangGraph

Databases: Redis, MongoDB, DynamoDB, Elasticsearch, SQLite, SQL Server, PostgreSQL, pgvector

Infrastructure: Docker, Azure DevOps, Last9, AWS (S3, EC2, ECS, ALB, Lambda, RDS, ElastiCache, CW, SNS, SQS)

Education

Indian Institute of Technology Kharagpur	Jun 2018 – May 2023
<i>Dual Degree (B.Tech & M.Tech), CGPA: 8.52/10</i>	Kharagpur

Projects

Jira 2.0	Apr 2024 - Jun 2024
<i>Autonomous Project Management Suite</i>	View System Design
<ul style="list-style-type: none">Crafted a Lambda, which triggers upon FRD upload to S3, and creates user stories using Llama3 running in an EC2Facilitated Event Bridge to consume Slack messages, leveraged LLMs through Flask APIs to compile updates on tasksEmployed SES to dispatch task approvals, thereupon invoking issue tracker's API to reflect these changes in backlog	
DeployX	Jan 2024 - Mar 2024

<i>UI Deployment Automation</i>	Design Reference
<ul style="list-style-type: none">Built an API server with RDS, queuing build jobs and streaming logs to Kafka for ClickHouse, accessible via pollingProvisioned an ECS cluster which runs ECR images in Fargate, to process the build jobs and dump the artifacts to S3Developed a reverse proxy for UI builds, streaming assets from S3, mapping subdomain to S3 key with RDS query	
Aranpani	Nov 2023 - Dec 2023

<i>Fundraiser Management System</i>	OpenAPI Docs
<ul style="list-style-type: none">Modeled project, donor & payment APIs with JWT auth, Joi validation, opting S3 presigned URL for media uploadsPenned Unit and Acceptance test suites, maintaining a code coverage of above 90%, leveraging Jest and SuperTestEngineered resilience with MongoDB Replica Sets, PM2 cluster & APM, Nginx web server and Route53 name server	