AASHISH KUMAR

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Education

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

Technical Skills

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

Markup/Query Languages: HTML5, CSS3, T-SQL, pgSQL

Frameworks & ORMs: Spring Boot, Gin, Express.js, Flask, jOOQ, Mongoose, Prisma, Gorm

Libraries: React.js, Jest, Joi, SuperTest, Colly, Playwright, BullMQ, Standard Template Library

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

Deployment: Docker, GitHub Actions, Azure Build & Release Pipelines, Deployment Groups, IIS, Nginx, Last9

Cloud: AWS S3, EC2, ECS, ELB, Lambda, RDS, ElastiCache, CloudWatch, SNS, SQS, SES, IAM, Route53

Experience

FlashMonk   **Dec 2024 - Present**
Software Development Engineer   *Bangalore*
- Redesigned the IMAP service, improving wait times by 16% through event–based mail fetch execution, auto–retry mechanisms, and configurable domains.
- Improved the email compose experience flow, reducing errors by 30%, and migrated mail view APIs from a database to Elasticsearch, which reduced mailbox latency by 25%.
- Migrated to an Affiliate Campaign and reward system, including campaign execution, audience segmentation, and click–through analytics, reducing customer engagement costs by 80%.

RootQuotient   **Jun 2023 - Nov 2024**
Software Development Engineer   *Chennai*
- Created Data Service APIs to migrate a Cancer Registry System, from Oracle PL/SQL Stored Procedures & Triggers to TS, leveraging SQL Server & Prisma
- Migrated .NET Web Services by creating a streaming RPC client & SOAP API server with WSDL, in Node.js, which consumes DLLs via wrappers using FFI
- Line

Amazon   **May 2022 – Jul 2022**
Software Development Engineer Intern   *Bangalore*
- Designed a UUID for the CGS Dashboard versioning and improved cadence support from weekly to every second, in the Consolidation EMR's ETL job
- Revamped the Audit Log DynamoDB to store all the metadata for the CGS Dashboard, tracking the published versions, reflecting in the CGS Version UI

Projects

Jira 2.0 | *Autonomous Project Management Suite* | View System Design   **Apr 2024 – Jun 2024**
- Crafted a **Lambda**, which triggers upon FRD upload to **S3**, and creates user stories using **Llama3** running in an **EC2**
- Facilitated **Event Bridge** to consume Slack messages, leveraged LLMs through **Flask** APIs to compile updates on tasks
- Employed **SES** to dispatch task approvals to stakeholders, then invoked issue tracker APIs to reflect changes in backlog

DeployX | *UI Deployment Automation* | Design Reference   **Jan 2024 – Mar 2024**
- Built an API server with **RDS**, queuing build jobs and streaming logs to **Kafka** for **ClickHouse**, accessible via polling
- Provisioned an **ECS** cluster which runs **ECR** images in **Fargate**, to process the build jobs and dump the artifacts to **S3**
- Developed a **reverse proxy** for UI builds, streaming assets from **S3**, mapping subdomains to S3 keys using RDS query

Aranpani | *Fundraiser Management System* | OpenAPI Docs   **Nov 2023 – Dec 2023**
- Modeled project, donor and payment APIs with **JWT** auth, **Joi** validation, and S3 **presigned** URLs for media uploads
- Penned **Unit** and **Acceptance** test suites, maintaining a code coverage of above **90%**, leveraging **Jest** and **SuperTest**
- Engineered resilience with **MongoDB** Replica Sets, **PM2** cluster & APM, **Nginx** web server and **Route53** name server