

# AASHISH KUMAR

+918084662242   aashishkr.iitkgp@gmail.com   linkedin.com/in/kr-aashish   github.com/kr-aashish

## 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 DevOps Build & Release Pipelines, Deployment Groups, IIS, Nginx, Last9

**Cloud:** AWS S3, EC2, ECS, ELB, Lambda, RDS, ElastiCache, CloudWatch, SNS, SQS, SES, IAM, CloudFront, 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%.
- Line

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
- Reengineered the **CSV View** to render the dashboard directly from **S3**, **eliminating the cost** of maintaining the DDB
- Devised **CSV diff** algorithm to compare dashboard versions by primary index, providing list of changes to stakeholders

## Projects

Jira 2.0

Apr 2024 - Jun 2024

Autonomous Project Management Suite

View System Design

- 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

Jan 2024 - Mar 2024

UI Deployment Automation

Design Reference

- 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

Nov 2023 - Dec 2023

Fundraiser Management System

OpenAPI Docs

- 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