Aashish Kumar

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Education

Indian Institute of Technology   **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, Node.js, Flask, jOOQ, Mongoose, Prisma, Gorm
Databases: Redis, MongoDB, DynamoDB, Elasticsearch, SQLite, SQL Server, PostgreSQL, pgvector
Cloud: S3, EC2, RDS, CloudWatch, Lambda, SNS, SQS, SES, ECS, Docker, IIS, Nginx, GitHub Actions, Azure CI/CD

Experience

Electronics Company   **May 2020 – August 2020**
Software Engineer Intern   *City, State*
- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.
- Worked with Google Firebase to manage user inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized Android Studio as a development environment in order to visualize the application in both iOS and Android.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.

Startup, Inc   **May 2019 – August 2019**
Front End Developer Intern   *City, State*
- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.
- Worked with Google Firebase to manage user inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
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Fraternity   **Spring 2020 – Present**
President   *University Name*
- Achieved a 4 star fraternity ranking by the Office of Fraternity and Sorority Affairs (highest possible ranking).
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.

Projects

Jira 2.0 | *View System Design*   **Apr 2024 – Jun 2024**
Autonomous Project Management Suite
- Crafted a Lambda which triggers upon the project's FRD upload into S3, and creates user stories and tasks by leveraging Llama3 running in a private EC2
- Facilitated Event Bridge to consume Slack messages periodically, then used the LLM through Flask APIs to compile task's status and assignment updates
- Employed SES to dispatch task update approvals to stakeholders, thereupon invoking issue tracker's APIs to reflect corresponding changes in the backlog

DeployX | *Design Reference*   **Jan 2024 – Mar 2024**
UI Deployment Automation
- Built an API server with a private RDS, which queues build jobs, and streams logs to Kafka for ingesting into ClickHouse, accessible as a polling endpoint
- Provisioned an auto-scaled ECS cluster, which runs an ECR image in Fargate, to process the build job for the given codebase, and dump the artifacts to S3
- Developed a reverse proxy for the deployed UI builds, to stream static assets from S3, mapping the project's subdomain to the S3 key with an RDS query

Aranpani | *OpenAPI Docs*   **Nov 2023 – Dec 2023**
Fundraiser Management System
- Modeled project, donor & payment endpoints, with JWT auth, serializer, Joi validation middleware layers, adopted S3 pre-signed URLs for media uploads
- Penned UTs for models & controllers and acceptance test suites for the API endpoints, maintaining a 90% above code coverage, with Jest and SuperTest
- Ensured application's reliability with MongoDB Replica Sets, in PM2 cluster mode with APM, leveraging Nginx as a web server and Route53 name server

Coursework & Certifications

- Programming & Data Structures
- Algorithms 1
- Applied Algorithms and DS
- Probability and Statistics

- Data Analytics
- Machine Learning Foundations
- Deep Learning Foundations
- Winter School of AI & Robotics

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