

ADITYA MAZUMDAR

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Education

University of Edinburgh

Msc Computer Science

September 2025 - present

Edinburgh, UK

Dr. A.P.J. Abdul Kalam Technical University

Bachelor of Technology in Computer Science and Engineering (CGPA of 8.06)

August 2019 - July 2023

Lucknow, Uttar Pradesh, India

Experience

Amber

Software Development Engineer

June 2024 – September 2025

Pune, Maharashtra, India

- Architected and developed **cross-platform** mobile applications using React Native, React, Typescript serving thousands of daily users.
- Transitioned from API-based polling to **web sockets**, eliminating redundant api calls, resulting in a 30% **reduction in server load and network traffic**.
- Optimized critical user flows, cutting load times from **1.2s** to **300ms** and achieving **60 FPS** smooth scrolling.
- Integrated **Stripe** payments, **Zendesk** live chat, and analytics (**Amplitude**) to deliver seamless user experiences.
- Led React Native migration (**0.72** → **0.79**), resolving critical blockers and improving performance by **10%**.
- Deployed a custom OTA update system using **AWS S3** + **CloudFront**, reducing app store dependencies and improving release speed.
- Automated builds and deployments via **Fastlane CI/CD** pipeline, ensuring faster and reliable release cycles.
- Designed a **Gen AI** Code Generator for automatically producing code from **Jira** user stories and creating/editing stories directly within Jira.
- Built a reusable UI component library, reducing bundle size by **24MB** and eliminating third-party dependencies.

Koenig Solutions Pvt. Ltd.

Software developer

July 2023 – May 2024

Remote

- Delivered React and React Native training for 60+ organisations including Bank of England, Walmart, and Cisco.
- Built GenAI-based tools such as a Git Conflict Resolver and AI Code Validator using LangChain and OpenAI APIs.
- Created an AI Copilot autocomplete system, enabling faster code generation and developer productivity.

Projects

MyShop Ecommerce App

- Built a scalable ecommerce app using **React Native**, **Node.js**, and **MongoDB** with **Redux Toolkit** for state management and optimized UX.

Kanban Board

- Developed a full-stack kanban board interface with React.js, Node.js, and MySQL supporting drag-drop tasks, JWT + Google OAuth login, and real-time updates.

Distributed Prime Finder + Replicated DFS

- Built a fault-tolerant coordinator/worker pipeline (Go, gRPC) with Chandy-Lamport snapshots and automatic job reassignment.
- Implemented a replicated DFS in Python (gRPC) with Raft-style leader election/client failover + chunked I/O; merged outputs via external k-way merge.
- Created a real-time dashboard to monitor worker liveness, throughput, DFS I/O, and snapshot events.

Publications

- **Virtual Monitoring System for Student Efficacy**: A web-based platform to provide transparent monitoring of student practical labs. 5th IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-23) (**Accepted**) Dec'23 and published - [Link](#)

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, Python, Go, C++

Frontend: React.js, React Native, Redux, Redux Toolkit, HTML5, CSS3

UI & Styling: Tailwind CSS, Next UI

Backend & Databases: Node.js, Express.js, REST APIs, WebSockets, MongoDB, MySQL, SQL

Applied AI / GenAI: OpenAI API, LangChain, prompt engineering, AI-assisted developer tooling

Cloud & DevOps: AWS (S3, CloudFront), CI/CD pipelines, Fastlane

Tools & Systems: Git, Linux, OAuth 2.0, GCC, VS Code