ADITYA MAZUMDAR

Edinburgh, UK

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Education

University of Edinburgh	**September 2025 - present**
Msc Computer Science	*Edinburgh, UK*
Dr. A.P.J. Abdul Kalam Technical University	**August 2019 - July 2023**
Bachelor of Technology in Computer Science and Engineering(CGPA of 8.06)	*Lucknow, Uttar Pradesh, India*

Experience

Amber	**June 2024 – September 2025**
Software Development Engineer	*Pune,Maharashtra,India*

- Architected and developed **cross-platform** mobile applications using React Native, serving thousands of daily users across iOS and Android.
- 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 **Amplitude** analytics to deliver seamless user experiences.
- Led React Native migration (**0.72 → 0.79**), resolving critical blockers and improving performance by **10%**.
- Built a generic UI component library, reducing bundle size by **24MB** and eliminating third-party dependencies.
- 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.
- Transitioned from API-based polling to **web sockets**, eliminating redundant api calls, resulting in a 30% **reduction in server load and network traffic.**

Koenig Solutions Pvt. Ltd.	**July 2023 – May 2024**
Technical Trainer and developer	*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.

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:C++,Python, JavaScript (ES6+), TypeScript

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

UI/UX Tools: Tailwind CSS, Next UI

Backend and Databases: Node.js, Express, MongoDB, MySQL, Go

Development Tools: Git, VS Code, Fastlane, AWS (S3, CloudFront), CI/CD

AI/ML: LangChain, OpenAI API, basic TensorFlow, Python scripting for data automation)

Other: Low-code platforms (Flutterflow), REST APIs, WebSocket, OAuth 2.0,Git, SQL, GCC, Linux