

Amit Mondal

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EXPERIENCE

Sensehawk(Acquired by Reliance)

March 2023 – Present

Software Engineer

Remote

- **Technical Ownership & Delivery:** Owned the Plans module end-to-end and drove technical development across DMS and Forms, including architecture, optimization, code reviews, and delivery of core workflows.
- **Enhanced Forms and DMS modules:** Achieved 60% reduction in loading/processing times and 25% fewer user errors. Refactored Forms module through dynamic imports, modular design, and dependency pruning, cutting bundle size by 82.9% (from 334.78KB to 57.3KB) and improving performance and maintainability.
- **AI & Automation:** Built comprehensive AI-powered solution with two distinct tools:
 - * **Tool 1 (RAG Chatbot):** Developed interactive chatbot using RAG architecture with DuckDB, Python, FastAPI, NumPy, Pandas, and AWS S3 for module-specific data analysis, summarization, and custom report generation based on conversational user queries.
 - * **Tool 2 (Form Generator):** Created automated form generator using system prompt engineering that converts text, image, or PDF inputs directly into functional UI forms through one-way processing.
- **Scalability:** Re-engineered document imports that crashed beyond 4,000+ Excel rows due to excessive memory consumption by replacing unbounded async method processing with 200-record chunked execution, enabling reliable imports of 8,000+ rows while adding safeguards through configurable import limits.
- **Memory Optimization:** Diagnosed 6+ GB browser memory consumption using Chrome DevTools Memory analysis, identifying detached DOM nodes and unreleased event listeners as memory leaks. Implemented lifecycle cleanup, virtualization, and pagination to reduce DOM footprint and improve garbage collection, reducing typical browser memory usage to 300–600 MB and preventing tab crashes during large-data workflows.

Paytm

October 2020 – March 2023

Software Engineer

Mumbai

- Contributed to Paytm Insurance and Paytm Money platforms.
- Developed and maintained core component and form builder libraries; led UI and tech stack revamps for motor, health, and life insurance flows. Increased customer retention by 13% following product revamp.
- Built MVP for Paytm Money that enabled users to create custom SIP baskets for stocks and mutual funds.
- Migrated order summary dependency from native app to web, reducing app size by 24%.

MITR Learning and Media

June 2018 – October 2020

Software Engineer

Mumbai

- Key collaborator bridging design, development, and product teams. Designed and developed integration solutions using diverse languages and frameworks.
- Delivered custom filterable E-Learning content with advanced UI. Created toolkits in Node.js for interactive learning materials.

EDUCATION

St. Francis Institute of Technology

2014 – 2018

Bachelor of Engineering - Information Technology

Mumbai

SKILLS

Front-End: HTML, CSS, JavaScript, TypeScript, React.js, Vue.js, Redux, Zustand, Vuex, Pinia

Back-End: Node.js, Python, MongoDB, PostgreSQL, REST, GraphQL

DevOps/Cloud: Docker, AWS S3, AWS CloudFront, AWS Lambda, Github actions

Other Tools: SCSS, Webpack, Vite, Storybook, Git, Firebase, React Native

Soft Skills: Decision Making, Logical & Critical Thinking, Interpersonal Skill