

PRODIP KUMAR PAUL

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Experience

MVPRockets

Apr 2024 – Present

Full Stack Developer

Bangalore, Karnataka, India

- **Katie AI** – AI English Tutor: Lead the development of core features like generating modules and lessons assigned to the user based on English test score, lesson activities and evaluation using **OpenAI** models, securing **LLM Guardrails**, monitoring **Helicon Observability** tools.
- Refined **SSE and Streaming** for real-time chat conversations and efficient asynchronous processing for pronunciation grammar report generation, resulting in a **37% increase** in user engagement.
- **Tax Uttaram** – Enterprise Tax Platform: Designed **event-driven architecture** using **AWS SQS** with **Dead Letter Queues** and **EventBridge Scheduler** for deferred task processing, reminder orchestration, and decoupled background job execution via a dedicated worker process.
- Engineered an end-to-end **Document Processing Pipeline** integrating **AWS Textract** OCR, **AWS Bedrock DOCX template generation** with XML-level manipulation, **LibreOffice PDF conversion** supporting 11+ formats, and **S3** storage with presigned URL access.
- Built a global **automated audit trail** using **TypeORM subscribers** with async context propagation and sensitive field masking across all CRUD operations, and integrated **AWS GuardDuty** for real-time **malware scanning** of uploaded documents with automatic quarantine via SQS event processing.
- **Lissun** – India's Top Mental Health Startup: Built robust and scalable **RBAC** and **FCM-based Push and Email notification system** for therapists, affiliates and operation management teams, handling over **20K+ MAU** sessions.
- Implemented a scalable **mail reporting pipeline** with **Node.js stream processing** and **pg-query-stream** for therapist session metrics, enabling efficient weekly/monthly reporting for ops/admin and improving operational efficiency by **25%**.

Swift

Nov 2023 – Mar 2024

SDE-1 Backend

Bangalore, Karnataka, India

- Developed custom **ABC – Abandoned Cart Recovery** system flows leveraging multiple integrations (**Intrakt, Freshchat, Wigzo, Limechat**), automating abandoned cart recovery processes and achieving a **5% increase** in recovered revenue.
- Implemented **Partial COD** feature, resulting in an **11% decrease** in RTO conversion rates, added multilevel configuration support for enhanced seller customisation.

Onelab Ventures

Apr 2023 – Oct 2023

Software Engineer

Pune, Maharashtra, India

- Developed a full-fledged **SaaS platform** for retail distribution of insurance policies, tailored for brokers and insurance marketing firms. Implemented seamless integration of kits from over **3 insurers**, spanning **2+ product verticals**.

Intelekt AI

Sep 2021 – Mar 2022

Software Engineer Intern

Kolkata, West Bengal, India

- Designed and implemented an enterprise **Fintech Application**, integrating Govt APIs like **BSE, NSE, MFU APIs**, identifying requirements and providing solutions for seamless mutual fund transactions and incorporated the **SINZY** and **Investwell APIs** for KYC verification, document validation, and portfolio management.

Projects

Docx-Html-Replacer | *TypeScript, OOXML, docxtemplater, PizZip* [🌐](#) [npm](#)

- Published an open-source **npm package** that replace placeholders on Docs Template with **Plain or Rich text** Content

MediEasy | *React.js, Node.js, Express.js, MongoDB, LocationIQ* [🌐](#) [🔗](#) [📺](#)

- Built a fully optimised and **responsive web application** that lets users find nearby hospitals

Technical Skills

Languages: TypeScript, JavaScript, C, C++

Frontend: React.js, Next.js, React Query, Zustand, Custom hooks

Backend: Nest.js, Node.js, Express.js, REST APIs, SSE, WebSockets, Event-Emitter

Databases: PostgreSQL, MongoDB, Redis

Cloud & Infra: AWS (EC2, ECS, S3, SQS, Eventbridge, Bedrock), Docker, New Relic, PostHog

Practices: SOLID, Repository, Strategy, Observer, Decorator Design Patterns, TDD, Atomic Design Pattern

Education

Swami Vivekananda Institute of Science and Technology

July 2019 – July 2023

Bachelor of Technology in Computer Science and Engineering. CGPA: 9.4/10.0

Kolkata, West Bengal, India