

Kanailal Manna

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Professional Summary

GATE '25 Qualified Software Engineer with a strong foundation in **Java**, **Cloud (AWS)**, and Full Stack architecture. Experienced in building enterprise-grade data governance platforms and scalable automation tools. Proven ability to optimize CI/CD workflows and integrate complex APIs. Seeking to leverage strong CS fundamentals and problem-solving skills in a challenging financial technology environment.

Skills

Core Languages: Java, Python, TypeScript, SQL, Bash
Backend & Cloud: REST APIs, FastAPI, AWS (Cloud Foundations), PostgreSQL, MongoDB, Microservices
DevOps & Tools: Docker, GitHub Actions, Git, Selenium, Linux
Frontend: Next.js, React, Tailwind CSS

Experience

Software Development Engineer I Ploutos AI Technologies (Formerly Datachecks) — Remote : **Apr 2025 – Present** (*Promoted from SDE Intern to SDE I in Oct 2025*)

- **Enterprise Data Platform:** Co-engineered the "Datachecks" governance platform. Integrated frontend logic with **Python FastAPI** backends to manage complex schema comparisons and virtual table management.
- **DevOps & CI/CD:** Engineered automated release pipelines using **GitHub Actions and Docker**, reducing deployment time and ensuring consistent builds across multi-environment setups.
- **Performance Engineering:** Refactored legacy code modules to improve application performance and maintainability, resulting in faster load times for large enterprise datasets.
- **System Design:** Collaborated with backend teams to design scalable API contracts for data quality modules.

Software Development Engineer Intern Buzzli — Remote : **Mar 2024 – Mar 2025**

- **Automation Architecture:** Architected a **Python Selenium-based web scraper** to automate content ingestion and data validation workflows, reducing manual data entry by 40%.
- **SaaS Development:** Led the full-stack development of the SaaS platform using Next.js/TypeScript, focusing on reusable component logic and scalable state management.
- **Optimization:** Optimized application rendering logic, ensuring a smooth experience across devices.

Software Engineering Trainee (Virtual) Walmart Global Tech — Remote : **July 2023 – Aug 2023**

- Gained hands-on exposure to advanced software engineering practices and scalable solution architecture within a major retail enterprise environment.

Projects

Lynx API | Rust, TypeScript, Next.js thelynxaapi.vercel.app

- Built a high-performance API testing platform (similar to Postman). Integrated **React Flow** to visualize complex API request/response graph workflows, aiding in backend endpoint debugging.

Chat-Mine Analytics | Python, Streamlit chat-mine.streamlit.app

- Developed a data analytics engine using **Python** to parse and analyze large volumes of unstructured chat logs. Generated statistical insights on message frequency and sentiment trends.

Education & Certifications

B. Tech in Computer Science & Engineering Techno International New Town, West Bengal : **2021 – 2025**

- **CGPA:** 8.45 | **Key Coursework:** OOP (Java), DBMS, Data Structures & Algorithms, OS
- **Achievements:** GATE 2025 Qualified (Computer Science)
- **Certifications:** AWS Academy Graduate - Cloud Foundations
- **Honors:** National Talent Search Examination (NTSE) Scholar, SVMCM Merit Scholar.

Open Source

- **Neutralino.js:** Contributed C++ and JS fixes to improve build stability for the framework.
- **Hacktoberfest:** 3x Active Participant (2022-2024), mentoring juniors on version control best practices.