Deeptangshu Paul

Software Engineer • AI & Workflow Automation • Backend APIs

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Professional Summary

Software engineer experienced in Python development, AI-enabled applications, and data engineering. Built VaaniBench, a conversational AI benchmarking platform supporting reproducible model comparisons, automated quality checks, and distributed tracing. Currently developing audit automation and data workflows using Python, SQL, and Databricks at IndusInd Bank.

Work Experience

IndusInd Bank Jul 2026 - Present

Software Engineer, Internal Audit | Full-time *Hybrid · Mumbai, India*

- Automated **250+ SQL audit queries** using scheduled Python jobs across Databricks and Oracle, replacing manual monthly report execution.
- Built a **React-Python audit reporting application** supporting **reports**, configurable execution, live job monitoring, and consolidated downloads.
- Implemented **SQL-level access controls** and execution sequencing for **20+ audit workflows** using Databricks SQL Warehouse, Unity Catalog, Delta Lake, Python, and SQL.

Technologies / Skills Used: Python, Databricks, Oracle, React, SQL, Microsoft Copilot Studio, Power Automate

MAQ Software Jan 2026 - May 2026

Associate Software Engineer | Internship *On-site · Noida, India*

- Developed and maintained REST APIs and microservices for enterprise applications serving **10,000+ daily users**, deployed through Azure DevOps CI/CD on Linux.
- Built PySpark and SQL ETL pipelines on Databricks to feed downstream BI workflows across **3 production releases**.
- Optimized queries, debugged pipeline failures, and reviewed code to improve **reliability across production deployments**.

Technologies / Skills Used: REST APIs, Azure DevOps, Linux, Databricks, SQL, React

Projects

VaaniBench - LLM Evaluation Platform | Github | Website *Nov 2026 - Present*

- Built a reproducible LLM evaluation platform with **OpenAI/Groq adapters**, featuring **20 test scenarios** in English, Hindi, and code-switching.
- Implemented paired A/B evaluations, rubric-based judging, and regression gates, utilizing **OpenTelemetry traces** for latency, token usage, estimated costs, and failures.

Technologies / Tools Used: Python, Pydantic, Starlette, SQLite, Pytest, OpenTelemetry, Groq API, JavaScript

OpsConsole AI – IT Helpdesk Automation Platform | Github *May 2026 - Present*

- Developed a **Node.js IT helpdesk backend** integrating knowledge-base search, REST APIs, and automated ticket escalation across **five issue categories**.
- Created **8 JWT-protected REST endpoints** with input validation; stored tickets in SQL Server and conversation logs in MongoDB.

Technologies / Tools Used: Node.js, REST APIs, SQL Server, MongoDB, Power Automate

Skills

- **Programming Languages:** Python, C++, JavaScript, TypeScript, Java
- **Frameworks & Libraries:** Pydantic, Pytest, FastAPI, Node.js, React, Express.js, Next.js
- **AI & Data Engineering:** LLM Evaluation, OpenTelemetry, LangChain, Databricks, PySpark, Delta Lake
- **Databases & Developer Tools:** PostgreSQL, SQL Server, MongoDB, SQLite, Docker, GitHub Actions, Azure DevOps

Education

National Institute of Technology, Durgapur West Bengal, India

Bachelor of Technology – Computer Science & Engineering *2022 - 2026*

Awards & Achievements

- **500+** DSA problems solved across LeetCode, GeeksforGeeks, and Codeforces.
- **Smart India Hackathon 2023 Finalist**: Ranked among the **Top 100 ideas nationally** out of thousands of submissions.
- Operations & PR Head, SPIC MACAY NIT Durgapur (2024–2026); led **5+ events** with **1,000+ attendees**.