ABHISHEK DAS

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OBJECTIVE

Generative AI enthusiast with 3 years of experience as a full-stack developer specializing in Python, TypeScript, Node.js, MongoDB, PostgreSQL, LangChain, RAG, and AWS Services. Seeking to leverage my skills in building scalable AI-driven web applications.

TECHNICAL SKILLS

Programming Languages:	Python, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks & Libraries:	Node.js, FastAPI, LangChain, RAG
Database:	MongoDB, PostgreSQL
Cloud/DevOps:	AWS (EC2, S3), Docker
Tools:	Multer, GitHub Actions (CI/CD), Nginx

PROFESSIONAL EXPERIENCE

Software Development Engineer II — Jul 2023 - Present
DataspaceAcademy (Satts Cybertechnology Pvt Ltd.) — *Kolkata, IN*

- Designed the database schema and architected a scalable Learning Management System (LMS) with a microservices approach using FastAPI, Node.js, MongoDB, and PostgreSQL.
- Developed AI-powered dashboards using LangChain, RAG, and Vanna AI for natural language business queries on LMS datasets.
- Created RAG-based chatbot systems with React integration for dynamic website FAQs and personalized student counseling.
- Built Dockerized microservice architecture and established CI/CD pipelines with GitHub Actions for seamless deployment.
- Implemented secure file upload handling to AWS S3 using Multer and AWS SDK integration.

Programmer Analyst Trainee — Jun 2022 - Jun 2023
Cognizant Technology Solutions — *Bangalore, IN*

- Developed backend utilities in Node.js and Python for database migrations and error logging systems.
- Created database connection services using JDBC and automated Excel-to-SQL data transformations.
- Worked on Dialogflow-based chatbot systems and explored Genesys Cloud integration.

PROJECTS

AI-Powered Generative Dashboard

- Built a dynamic dashboard enabling users to query LMS data in natural language with LangChain and Vanna AI.
- Developed MongoDB query generation pipeline and integrated Qdrant for schema retrieval.
- Implemented real-time analytics visualization with optimized query handling.

AI Code Documentation Generator

- Automated DOCX documentation generation for Node.js projects using Tree-sitter AST parsing and OpenAI integration.

- Enabled folder-wise structured documentation with clean export formatting.

Learning Management Hub (LMH)

- Developed a full-stack LMS using React.js, FastAPI, Node.js, and PostgreSQL with Docker orchestration.
- Integrated AWS S3 for file storage and automated deployments via GitHub Actions and Nginx.

Website Chatbot (AI Assistant)

- Built a personalized course recommendation chatbot using LangChain and RAG, integrated via React widget.
- Processed scraped website data into a Qdrant vector database for context-aware responses.

DataPay (Payment Management System)

- Developed EMI payment calculation and automated reminder system using React and Node.js.
- Integrated Razorpay for automatic payment collections and dynamic discount handling.

CERTIFICATIONS

AWS Fundamentals

Graph Developer - Associate

EDUCATION

Bachelor of Computer Science & Engineering
Narula Institute of Technology   2018 - 2022
YGPA: 8.18

LANGUAGES

English (Fluent), Bengali (Fluent), Hindi (Conversational)

PERSONALITY TRAITS

Quick Learner   —   Team Player   —   Leadership

HOBBIES

Bike Riding, Gaming, Vlogging