

Arnab Kar

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SKILLS

Backend Development :	Python, PySpark, NodeJS, SQL.
Frontend Development :	JavaScript, TypeScript, HTML, CSS, Bootstrap.
Frameworks / Libraries :	FastAPI, FlaskAPI, React, Angular, Numpy, Pandas.
Tools :	Azure DevOps, Azure Synapse Studio, Git.
Databases :	MongoDB, Oracle, PostgreSQL.
Cloud Platforms :	Microsoft Azure.
Other Skills / Platforms :	IntelliJ, PyCharm, VSCode, Postman, JIRA.

WORK EXPERIENCE

Software Engineer – Full Stack LLM Development

June, 2023 - Present

Accenture

Kolkata, India

- Developed **DelphAI**, an **AI ChatBot** frontend with **streaming** data functionality using **HTML, CSS, TypeScript, ReactJS**.
- Redesigned the UI for improved user experience and implemented **Dynamic Graph Generation** based on user-selected scenarios and ensured **Automatic Updates** when scenario changes occur.
- Redesigned UI for enhanced **user-friendliness** and **visual appeal**, including implementing a **pane for conversation history management (delete, archive, rename)**, **scrollbars**, **auto-scrolling**, **error handling**, and **checkbox loader** features using **HTML, CSS**, and **TypeScript**.
- Developed **Flask APIs** in **Python** for the backend of **FinOps**, an **AI-powered** financial operations and optimization tool, to retrieve **live data** from **AWS, GCP, Azure**, and **historical data** from **Neo4j graph database**.
- Designed and created **Python APIs** using **FlaskAPI** for storing and retrieving historical data from **Neo4j Database**, and for retrieving **live data** from **AWS, GCP**, and **Azure** to send the **payload** to **frontend** for use in **UI Graphs** and **Reports**.
- Implemented **functionality** to **generate PowerPoint presentations** based on **live or historical data** fetched from **Neo4J** in **FinOps**.
- Optimized backend APIs with **caching strategies** to enhance application **responsiveness** and **scalability** using **FlaskAPI**.
- Used **Git** and **Azure DevOps** for **version control** to ensure code management and collaboration across **teams** and **Deployments**.

Associate Software Engineer – Backend Development

Feb, 2022 – May, 2023

Accenture

Kolkata, India

- Developed a Commission application for **AT&T** to manage franchises and 3rd party dealer commissions using **Python** and **Azure Function App**.
- Designed and implemented a mailing functionality using **MIME** & other **Python libraries** to notify on commission request status.
- Implemented **import/export** functionalities using **Flask, Pandas, IO**, and **OpenPyXL** for data handling and transformation.
- Conducted data transformations using **PySpark, NumPy & Pandas** in **Azure Synapse Studio Notebooks** to ensure data integrity and compliance.
- Created and managed **Data Pipelines** in **Azure Synapse Studio** for efficient data processing from **Azure Storage Explorer, PostgreSQL**, and **MongoDB**.
- Accustomed to Deployment steps and **CI/CD pipelines** with help of **Git, Azure DevOps**.
- Maintained **High Code Quality, Version Control** practices, and **Continuous Integration** using **Azure DevOps**, contributing to efficient project delivery.
- Collaborated with cross-functional teams to integrate **backend solutions**, ensuring **scalability & performance optimization**.

EDUCATION

University of Engineering & Management, Kolkata.

2017–2021

Bachelor of Technology – Electrical Engineering.

OBJECTIVE

I am a **Software Engineer** with **2.6+ years** of experience in **developing and maintaining** scalable **web-based applications** and products. Proficient in **Python, ReactJS, NextJS, JavaScript, Typescript**, with **FlaskAPI and FastAPI** as **Backend Framework**. Skilled in integrating **Generative AI**, designing **data workflows** with **PySpark** and utilizing **SQL**. Adept at maintaining **code integrity** with **Azure DevOps** and **managing MongoDB, Oracle, and PostgreSQL** databases.

CERTIFICATION

- Microsoft Certified Azure Fundamentals – AZ900

LANGUAGES

- **English** - Full Profession Proficiency
- **Bengali** - Native or Bilingual Proficiency
- **Hindi** - Working Proficiency