

# Arnab Kar

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## OBJECTIVE

I am a dedicated **Software Engineer** with **3.7+ years** of experience in **Building** and **Maintaining** scalable **Backend Systems** and **Enterprise Solutions**. My expertise lies in **Backend Technologies** such as **Python, FlaskAPI, FastAPI, and PySpark**, with a focus on developing **RESTful APIs, Integrating Cloud Services, and Optimizing Data Workflows**. I am proficient in working with databases like **MongoDB, PostgreSQL, and Oracle** for secure and efficient **Data Handling**. Additionally, I have experience with **Frontend** tools including **ReactJS, TypeScript, and JavaScript** to support **Full-Stack** functionality when needed. I follow best practices in **Software Engineering**, including **Agile Methodology, CI/CD Pipelines, Version Control with Git and Azure DevOps, and Containerization** using **Docker and Kubernetes**. I aim to deliver **Clean, Performant, and Reliable** solutions across the **Development Lifecycle**.

## SKILLS

<b>Backend Technologies:</b>	Python, PySpark, NodeJS, SQL, Java.
<b>Frontend Technologies:</b>	JavaScript, TypeScript, HTML, CSS, Bootstrap.
<b>Frameworks / Libraries:</b>	FastAPI, FlaskAPI, React, Numpy, Pandas.
<b>Tools:</b>	Azure DevOps, Azure Synapse Studio, Git.
<b>DevOps Tools:</b>	Docker, Kubernetes, CI/CD.
<b>Web Technologies:</b>	JSON, XML, REST APIs, MVC.
<b>Databases:</b>	MongoDB, Oracle, PostgreSQL.
<b>Cloud Platforms:</b>	Microsoft Azure, AWS.
<b>Other Skills / Platforms:</b>	IntelliJ, PyCharm, VSCode, Postman, JIRA, Cursor.
<b>Methodologies:</b>	Agile, Scrum, SOLID, OOPs.

## WORK EXPERIENCE

### Software Engineer – Full Stack LLM Development

June, 2023 - Present

[Accenture](#)

Kolkata, India

- Handled **Data Transfer** for **AT&T** using **Python, PySpark, Databricks** and **Azure** to automate **HMS-to-ADLS** migration via Excel-driven workflows.
- Designed **functions** and built **Python Scripts** for efficient **data transfer, external table creation, and Hive Meta Store updates** for scalable data ops.
- Built **FlaskAPIs** in **Python** for **FinOps** (client: **Ford**) to fetch **live cloud data (AWS, Azure, GCP)** and **historical data from Neo4J** for financial reporting.
- Implemented functionality to generate **PowerPoint** presentations based on the data and **optimized API performance** through **caching strategies**.
- Developed **SecurityAI** (client: **CyberArk**) backend in **Python** using **AutoGen**, enabling secure **GenAI-powered workflows** across **IAM** platforms like **Okta, CyberArk, Auth0, Azure Entra and AWS Cognito**.
- Built **APIs** and **Model Context Protocol (MCP)** to support **secure app provisioning, role assignments, secret storage & private key retrieval**.
- Developed **DelphAI**, a **GenAI chatbot** frontend using **ReactJS, TypeScript** and **HTML** with **streaming response rendering** and **dynamic graphs**.
- Enhanced **UI** with features like **Conversation History, Scrollbars, Auto-Scroll, and Error Handling** to improve user interaction.
- 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 Software for **AT&T** using **Python & Azure Function App** to manage franchises and dealers payout.
- Built mailing functionality using **MIME & other Python Libraries** to notify on Commissions request status.
- Implemented **Import/Export** functionalities using **Flask, Pandas, IO, and OpenPyXL** for data handling and transformation.
- Transformed data using **PySpark, NumPy & Pandas** in **Azure Synapse Studio Notebooks** to ensure data integrity and compliance.
- Built and managed **Data Pipelines** in **Azure Synapse** for efficient data processing from **Storage Explorer, PostgreSQL & MongoDB**.
- Accustomed to **Deployment Steps** and **CI/CD Pipelines** with help of **Git, Azure DevOps**.
- Maintained **Code Quality, Version Control** enabling efficient delivery with **Azure DevOps**.
- 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.

## CERTIFICATION

- Microsoft Certified Azure Fundamentals – AZ900

## LANGUAGES

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