

# Arnab Kar

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## OBJECTIVE

I am a highly motivated **Software Engineer** with **3+ years** of experience in **Designing, Developing** and **Maintaining** scalable **Web-Based Applications** and **Enterprise Solutions**. I specialize in **Software Development**, with expertise in **Python, ReactJS, NextJS, JavaScript, Typescript**, along with backend frameworks such **FlaskAPI** and **FastAPI**, and **Cloud-Based Architecture**. I have hands-on experience in **Building** and **Optimizing Backend Services**, **Integrating Generative AI**, and **Designing Data Workflows** using **PySpark**. I am also skilled in **Microsoft Azure** and **REST APIs** Development. I focus on creating efficient, high-performance applications that enhance **User Experience** and **System Reliability**. Additionally, I am adept at **SQL Utilization**, **Maintaining Code Integrity** with **Azure DevOps**, and working with **MongoDB, Oracle**, and **PostgreSQL** for backend data management.

## SKILLS

<b>Backend Technologies:</b>	Python, PySpark, NodeJS, SQL.
<b>Frontend Technologies:</b>	JavaScript, TypeScript, HTML, CSS, Bootstrap.
<b>Frameworks / Libraries:</b>	FastAPI, FlaskAPI, React, Angular, 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.
<b>Other Skills / Platforms:</b>	IntelliJ, PyCharm, VSCode, Postman, JIRA.
<b>Methodologies:</b>	Agile, Scrum, SOLID, OOPs.

## 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

Accenture

Feb, 2022 – May, 2023

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**.
- Maintained **High Code Quality**, **Version Control** practices, and **Continuous Integration** using **Azure DevOps**, contributing to efficient project delivery.
- Accustomed to **Deployment** steps and **CI/CD Pipelines** with help of **GIT**, **Azure DevOps**.
- Collaborated with cross-functional teams to integrate **Backend Solutions**, Ensuring **Scalability & Performance Optimization**.

## EDUCATION

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University of Engineering & Management, Kolkata.

2017–2021

Bachelor of Technology – Electrical Engineering.

## CERTIFICATION

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- Microsoft Certified Azure Fundamentals – AZ900

## LANGUAGES

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