

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

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