Abhiroop Shome

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EDUCATION

SRM Institute of Science and Technology — 2019 - 2023

Bachelor of Technology in Computer Science and Engineering – 9.23 CGPA — *Chennai, Tamil Nadu*

EXPERIENCE

MLOps Engineer — September 2024 - Present

DMI Finance — *New Delhi*

- Solely **architected and productionized** 20+ scalable ML-backed backend services on **Google Cloud Run** and **AWS Lambda**, powering real-time financial decisioning systems on an organizational level; **led cross-functional coordination** to accelerate production rollouts.
- Re-engineered critical APIs to **reduce error rates from 12% to 0.1%** and **improve latency by 80%** under scaling traffic, strengthening system reliability and performance under load.
- Built a distributed batch scoring platform for **very large datasets** with **parallel execution and intelligent workload partitioning**, **improving model runtime by up to 70%** while optimizing resource utilization.
- **Designed** centralized logging, observability, and automated alerting systems (including PSI-based drift monitoring) to **proactively detect** production anomalies and data distribution shifts.
- Developed **secure**, **partner-facing** "Blackbox" utilities enabling **automated** loan pre-approval pipelines.
- Standardized Git-based workflows, release discipline, and documentation practices (clear READMEs, versioned change logs, deployment guides), **improving** code quality, onboarding efficiency, and deployment traceability **across the team**.
- Leveraged **agent-driven development workflows** to accelerate engineering velocity; **automating** repetitive implementation, testing, and debugging tasks. Thus, **significantly improving development productivity** and reducing turnaround time for production releases.

Python Developer Intern — March 2024 - September 2024

techolution — *Hyderabad, Telangana*

- Architected and implemented robust **APIs** facilitating efficient **extraction and parsing of SharePoint data** for expedited training of AI models in a client project.
- Spearheaded a comprehensive **refactoring** initiative for a projects' backend codebase, resulting in a **33% reduction in code length and a remarkable 60% improvement in efficiency.**
- Conducted comprehensive **testing and debugging** of the backend codebase, identifying and resolving critical issues to ensure adherence to industry standards and seamless project execution.

Intern — January 2023 – July 2023

AB InBev — *Bengaluru, Karnataka*

- Designed and developed a **secure** enterprise-level web-based **chatbot** using Microsoft Bot Framework to facilitate internal communication among employees
- Developed an API solution using Python and **FastAPI** to connect and retrieve data from multiple data sources within the team.
- Created a web-based dashboard for the department's GitHub organization, leveraging the **GitHub API** to display data on active projects in a grid-like format using cards
- Developed and maintained data management and **documentation** procedures, improving data accessibility and facilitating seamless information sharing across departments

Backend Developer Intern — August 2022 – September 2022

Tyroo Technologies — *Gurugram, Haryana*

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript
Frameworks: Node.js, Flask, FastAPI, Microsoft Bot Framework
Developer Tools: Git, Docker, Google Cloud Run, Google Cloud Storage, Microsoft Azure, Azure Databricks, PowerAutomate, SQL, MongoDB, PowerBI, AWS Lambda, AWS EC2, SSH, Cursor, Amazon Redshift
Libraries: pandas, NumPy, Matplotlib, pyMongo, pyODBC, psycopg2, concurrency, boto3, google-cloud-storage, conda, Jupyter
Other Skills: Adobe Photoshop, Adobe Premiere Pro, Powershell, MS Office, JIRA, Linux, VMWare, Shell Scripting, crontab, Agent-Driven Development