ADITYA SHUKLA

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EDUCATION

Georgia Institute of Technology   Atlanta, Georgia
M.S. in Computer Science, **GPA: 3.87**   Sep 2024 – Jun 2026

BITS Pilani   Hyderabad, India
B.E. in Computer Science, **GPA: 9.09/10**   Aug 2017 – Jun 2021

PROFESSIONAL EXPERIENCE

Microsoft   Hyderabad, India
Software Engineer II   Nov 2023 – Sep 2024

- **Directed the 14-member Azure Workloads Portal service**, driving SAP as a top-tier workload on Azure. Oversaw feature delivery, monthly deployments, end-to-end testing, and customer onboarding.
- Revamped portal infrastructure, achieving **sub-two-second page load times**, exceeding the target **Lighthouse score of 95**, and improving service API response times to **less than one second.**

Software Engineer   Jun 2021 – Nov 2023

- **Engineered an end-to-end integration** of Azure Backup with SAP, automating backup for all the virtual machines and databases, reducing manual backup efforts by **80%**.
- Architected and implemented the service workflows and the portal experience with **C# .NET, Typescript and React.js**, created the swagger documentation, simplified developer on-boarding and **reduced API integration time by 30%.**

Amazon Web Services (AWS)   Seattle, Washington
Software Development Engineer (SDE) Intern - AWS Cost Optimization Hub   May 2025 – July 2025

- Built an **MCP server** that enables Amazon Q to explain **List vs. Summary** savings discrepancies using real account data, orchestrating tools via **AWS Strands** and **Bedrock** for reasoning and streaming.
- Integrated **COH APIs** (ListRecommendations, ListRecommendationSummaries) and **Athena** queries; implemented **primary validation** (10% threshold) and **fallback strategies** (disaggregation, shrinkage) for accurate explanations.
- Implemented a secure **spoofing handler** (dev service principal + **KMS**-encrypted account IDs, gamma env) with **audit logging** for safe, testable analysis flows.
- Resolved **tool parameter truncation** by designing **shared state management** across tools (stable handling of large recommendation ID sets); authored **design spec**, shipped **CLI + Amazon Q** integration, deployed with **CDK**.

Microsoft   Hyderabad, India
Software Engineer Intern   May 2020 – Jul 2020

- Created a Virtual Assistant for the Enterprise Data Lake Platform by leveraging the self-serve capabilities of the EDLP Control Plane, to reduce customer onboarding time by **30%**.
- Incorporated **.NET Core**, **C#**, and the Microsoft Bot Framework, integrated NLP to detect 8 different user intents and perform automatic spell-check, added a knowledge base for answering FAQs.
- Incorporated **Typescript** and **React.js** for integrating the bot onto the platform as a minimizable web chat component.

PROJECTS & ACCOMPLISHMENTS

Microsoft Hackathon - Sep 2024 - Azure Specialized | 2nd Runner-Up

- Developed a co-pilot tool using **Azure OpenAI** and function apps with **Python**, allowing automated query resolution, system insights, and issue fixing during deployment.
- Devised a **Retrieval Augmented Generation (RAG)** approach to train the LLM on team-specific TSGs and documentation, reducing deployment time and reducing support requests.

Walmart Labs Hackathon - Aug 2020 | 1st Runner-Up

- Built an **Android in-store navigator** (geolocation + real-time pathfinding) with **QR checkout**, reducing time by **20%**.
- Shipped a **Python recommender** (collaborative filtering + Apriori) for aisle-aware suggestions, increasing average basket size by **15%**.

COURSES & SKILLS

- **Programming & Scripting Languages:** C++, Python, C, Java, C#, SQL, JavaScript, TypeScript
- **Technologies & Frameworks:** Git, React.js, Node.js, Apache Kafka, Spring Boot, Flask, TensorFlow, Pytorch, Hadoop, MySQL, LAMP, Oracle, Spark, HTML, Kubernetes, Linux, AWS, Google Cloud Platform, Frontend, Backend, Full-stack
- **Courses:** Machine Learning, Artificial Intelligence, Information Retrieval, Data Structures & Algorithms, Data Database Management Systems, Object Oriented Programming, Parallel Computing, Cryptography, Operating Systems, Networks, Deep Learning, Computer Vision