Aditya Mohan

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EDUCATION

Georgia State University   **Expected Graduation: May 2025**
Masters of Science in Computer Science
RELEVANT COURSEWORK: Advanced Software Engineering, Deep Learning, Algorithms, OOP, Big data, Cloud Computing

PROFESSIONAL EXPERIENCE

Senior Data Engineer | LTIMindtree   **June 2022 – July 2023**
- Led the migration from Oracle SQL to Databricks, reducing infrastructure costs by approximately $200K annually
- Optimized ETL pipelines and data schemas, reducing processing time by 40% and query execution by 36%, while improving scalability for high-throughput workloads
- Formulated Git workflows processing 5TB+ of sales data across 100 regions, ensuring 92% pipeline reliability.
- Integrated Snowflake with SAP for real-time ETL workflows, optimizing data ingestion and transformation, cutting processing costs by 20%, and accelerating query performance by 35%

Software Engineer Mentee | The Linux Foundation (RISC-V)   **September 2024 – December 2024**
- Collaborated on RISC-V, an open-standard ISA, under the Linux Foundation's prestigious mentorship program.
- Refactored a critical parser for modularity, isolating output into dedicated scripts, boosting scalability by 30%.
- Designed and executed 20+ unit tests, streamlining debugging processes and raising code reliability by 25%.
- Created YAML and JSON GitHub workflows to automate tests and integrations, facilitating seamless updates.
- Enhanced the RISC-V Sail Model repository with LaTeX/AsciiDoc documentation generation, type-checking, and executable emulator support achieving 300 KIPS performance on Intel i7-7700.

Full Stack Developer Intern | All in Dating Inc   **May 2024 – August 2024**
- Engineered a Flutter dating app with WebSockets, reducing message delivery time by 30% for instant connections
- Conducted comprehensive API testing using Postman, optimizing SQL database performance to handle 10,000+ concurrent users while ensuring 99.99% uptime and seamless scalability
- Revamped system design to cut chat refresh costs, improving system speed and reducing resource usage by 50%
- Implemented an AI chat assistant using LLaMA-1 to enrich user experience with engaging conversation starters
- Analyzed web options and chose Azure Media Storage for efficient sharing of multimedia content

Mobile App Developer Intern | Codes & Coffee Tech   **February 2022 – May 2022**
- Developed and launched a Flutter-based inventory management app on the Play Store, adopted by 100+ vendors, reducing inventory losses by 20%
- Implemented asynchronous programming techniques to optimize API response times, resulting in a 40% faster data retrieval and improved system throughput
- Deployed the app on the Google Play Store, reaching over 100 vendors and reducing inventory losses by up to 20%
- Implemented caching mechanisms for cost savings and used GraphQL to reduce API requests by almost 45%

PROJECTS

AI-Enhanced Game Development with Unity - Personal   **December 2024**
- Integrated AI language models in Unity for real-time NPC dialogue based on player inputs and game events.
- Leveraged Microsoft Autogen to implement human-in-the-loop and multi-agent models for NPC behavior.
- Incorporated dynamic, context-aware dialogue modules to make in-game interactions more immersive & responsive

ALPFA Atlanta Job-Matching Platform - Team (github.com/TraXIcoN/ALPFAteam3)   **September 2024**
- Won 1st place at the Code-to-Give Hackathon by Morgan Stanley, competing against 50+ teams
- Developed a Django job-matching platform leveraging SpaCy for profile parsing, boosting match accuracy by 20%
- Created GPT-4/Langchain tool for sponsors to evaluate 100+ resumes in parallel, reducing review time by 30%

Smart AI Accessibility for Google Meet - Team (github.com/TraXIcoN/SIHCODEFINAL) **September 2022**
- Secured 1st place among 30,000+ teams in the Smart India Hackathon 2022 by developing innovative assistive tech
- Led the development of a JS-based Chrome extension that leverages MediaPipe and deep learning to translate American Sign Language into text, enhancing accessibility for 1,000+ Google Meet users with live captions and voice commands
- Leveraged Google Speech-to-Text API for accurate and real-time captions, allowing users to interact seamlessly with AI

SKILLS AND CERTIFICATIONS

Programming: **Proficient:**Python(3),TypeScript(2), Javascript(2) **Intermediate:**C++(1),SQL(2) **Beginner:**Dart(1),Java(1)
Tools: Git, GitHub, Langchain, Jenkins, Firebase, Elasticsearch, WebRTC, WebSockets,
Frameworks: ReactJS, Angular, NextJS, Flask, Django, Flutter, FastAPI, TensorFlow, PyTorch, OpenCV, Tailwind
Softwares: AWS, GCP, Databricks, Snowflake, Docker, Kubernetes, Tableau, PowerBI, Certified AZ-900 Azure Fundamentals