Akshit Dayal Uttiramerur

New York City Metropolitan Area

Software Engineer enabling business intelligence through AI agents and tool-augmented LLMs

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Skills

- **AI & Data:** Building AI-driven data assistants for real-time business analytics and decision support; Python, Large Language Models (LLMs), Prompt Engineering, RAG, vector embeddings, vector databases
- **Frontend:** React, Next.js, Angular, Flutter, React Native, Android, JavaScript, TypeScript, HTML, CSS, Tailwind
- **Backend & Cloud:** Node.js, NestJS, Java, Django, AWS (Lambda, DynamoDB, CloudWatch), GCP, microservices architecture, PostgreSQL, SQL, NoSQL, MongoDB, Supabase
- **DevOps & Testing:** Git, CI/CD (GitHub Actions, CodePipeline), Jest, unit/integration testing, Docker, Linux

Experience

FULLBEAUTY Brands — NYC, NY, USA
Full-Stack Developer | 08/2024 – Present

- **Built an internal AI assistant using LLMs, RAG, vector embeddings, and a custom Model Context Protocol (MCP)** to connect to **Snowflake via Python microservices**, enabling non-technical teams to query live inventory and analytics data through natural language — significantly improving operational efficiency and internal business reporting.
- Eliminated a major **memory leak** by setting up **custom load tests**, analyzing **heap snapshots**, and investigating long-lived objects — improving uptime and saving thousands in weekly lost revenue.
- Designed and developed an **in-house CMS platform** using AWS, Next.js, and NestJS, enabling business teams to manage and publish content without developer involvement or code deployments — drastically accelerating go-to-market time for campaigns.
- Led the migration of a legacy system to a modern tech stack, integrating **Next.js** for the front-end and NestJS + AWS for the backend
- Implemented site-wide caching and employed other optimization techniques boosting page load speed by 45%.
- Proficiently used AWS services including CloudWatch, Lambda, DynamoDB, CodePipeline, X-Ray, ECS, S3, Parameter Store, and Secrets Manager for robust infrastructure management.
- Proactively managed release branches and processes, ensuring seamless and efficient deployment workflow.
- Built a structured, reusable logging system for clean, consistent logs in AWS CloudWatch utilizing them for custom analytics purposes.

Sri Infotech Inc — Remote, USA
Full-Stack Developer | 07/2023 – 08/2024

- Led architecture and development of a modern employee portal using **Angular**, **AWS** and **Node.js**.
- Integrated backend APIs with **PostgreSQL**, ensuring reliable data flow and structured logging.
- Designed CI/CD workflows using GitHub Actions to automate testing, linting, and enforce branching strategies.
- Built secure authentication and role-based access, ensuring a clean separation of admin and employee views.
- **Collaborated directly with business stakeholders** to define feature scope, prioritize MVP, and deploy iteratively.
- Built mobile responsiveness and optimized UI/UX for both desktop and mobile using modern CSS techniques and component libraries.

BuzyGo — Hyderabad, India
Software Development Engineer | 01/2021 – 12/2021

- **Built a customer portal** using React, AWS, and Django — helping the startup deliver a self-service experience and streamline client communication.
- Reduced post-release bugs by 30% through extensive unit testing and a stable deployment pipeline.
- Improved feature delivery time by 25% by closely collaborating with backend engineers in an agile workflow.
- Streamlined version control processes using Git, minimizing code conflicts and improving release efficiency.

Xlenz — Hyderabad, India
Software Engineer | 01/2020 – 12/2020

- *Built and launched cross-platform AR-based mobile applications using React Native, Flutter, Node.js, and SQL — directly reporting to the CEO.*
- Improved user experience by implementing persistent sorting/filtering features, reducing search time by 60%.

- Reduced debugging effort by building modular, testable app components, leading to faster issue resolution.
- Developed and integrated REST APIs using Node.js, and embedded external content via iframes to enhance app functionality and streamline user experience.

Education

New Jersey Institute of Technology — Newark, NJ, USA

Master of Science in Computer Science | 01/2022 – 12/2023

GPA: 3.8

- Data Structures, Algorithms, Machine Learning, Deep Learning, Cloud Computing, DBMS

Jawaharlal Nehru Technological University — Hyderabad, India

Bachelor of Science in Computer Science

Projects

- **organAIze:** AI-powered daily routine scheduler. *(Full-stack, React + HuggingFace API)* **(04/2024)**
    Link: **organaize.vercel.app**
- **Ishaare:** Social web game for gatherings. *(Next.js, Firebase)* **(04/2024)**
    Link: **ishaaregame.vercel.app**
- **Handpose:** Real-time hand sign detection using ML model in browser *(TensorFlow.js + React)* **(11/2021)**
    Link: **akrypt.github.io/handpose**
- **Toastmasters App :** Digitalized Toastmasters meetings using Android Studio for an audience of 40+ members **(07/2019)**
    Link: **github.com/AkRypt/HITAMToastmastersApp**

Certifications and Courses

- **Neural Networks and Deep Learning**: *DeepLearning.AI*
- **Intermediate Machine Learning**: *Kaggle*
- **Machine Learning Specialization**: *Coursera, by Andrew Ng*

Others

- **Winner, Hackathon**: For the development of a toxic plant classifier at NJIT using Deep Learning **(11/2022)**
- **Mozilla Hackathon Winner**: For building a platform connecting the students and teachers at HITAM **(11/2019)**
- **Computer Science Tutor:** Data Structures and Algorithms, Artificial Intelligence, Android Development