Srichandan **Kota**

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Location: Anywhere in the USA **Email:** kotasc18@gmail.com **5+ years professional experience**

EXPERIENCE

Generative AI Engineer | University of North Texas - Denton, TX, USA   **Feb 2024 - Present**
- Architected a GenAI ingestion system using **AWS Kinesis**, **Lambda**, and **DynamoDB**, enabling low-latency **RAG** pipelines over **large-scale data processing**.
- Integrated **LangChain**, **LangGraph**, and **Hugging Face** to build autonomous agents powered by **AI algorithms** and **pre-trained models** for real-time inference.
- Engineered pipelines using **TensorFlow**, **PyTorch**, and **Python**, achieving faster **model optimization**, **model accuracy**, and **model performance** benchmarks.
- Implemented **LLM fine-tuning** and retrieval workflows with **FAISS**, **Spark**, and **Ray**, improving document recall precision by 35% across production systems.
- Developed **AI APIs** and model-serving microservices using **FastAPI** and **WebSockets**, ensuring seamless **cloud platform** deployment via **EKS** and **ECR**.
- Collaborated with business stakeholders to align on **AI capabilities enhancement**, contributing to scalable **foundational AI models** used across FinTech prototypes.

Software Engineer Intern | Idaho National Lab (Nuclear) - Idaho Falls, ID, USA, Link : INL May 2024 - Aug 2024
- Designed and built a web-based portal using **Java**, **.NET Core**, **Flask**, and **PostgreSQL**, enabling end-to-end **system integration** across internal research tools.
- Built Python pipelines for **data extraction** and **data analysis** over **large datasets**, ensuring **robust model development** and data integrity for scientific computation.
- Applied **distributed computing** concepts and **secure coding practices** to deliver maintainable, well-documented ETL systems aligned with software **best practices**.

Software Engineer | Juspay (FinTech) - Bangalore, India, Link : Juspay   **Jan 2022 - July 2023**
- Built and optimized **foundational components** for tokenized payments using **Spring Boot**, **Node.js**, and **PostgreSQL**, ensuring secure, scalable transactions.
- Integrated **system architecture** using **AWS Lambda**, **S3**, **RDS**, and **Step Functions**, delivering **shippable products** with 99.99% uptime at 100M+ txn scale.
- Orchestrated **CI/CD pipelines** using **GitHub Actions**, **Jenkins**, **Docker**, and **CloudFormation**, accelerating product **iteration** and release velocity by 60%.
- Worked with infra and BI teams to drive **data insights** from transactional logs using **data extraction** pipelines and real-time dashboards for stakeholder visibility.
- Collaborated across teams in a fast-paced **team environment**, applying strong **problem-solving**, **communication skills**, and **feedback integration** to drive outcomes.

Software Engineer | Clear Exam (EdTech) - Jaipur, India, Link : Clear Exam   **July 2019 - Dec 2021**
- Developed a full-stack edtech platform using **Spring Boot**, **FastAPI**, and **PostgreSQL**, achieving seamless **end-to-end solution delivery** for 10K+ students.
- Created high-throughput **REST APIs** in **TypeScript** and **Node.js** for progress tracking, enabling real-time content rendering and improving **system performance**.
- Built frontend UIs with **React**, **Next.js**, and **Tailwind**, integrating **content authoring applications** and contributing to full **product iteration** cycles.

EDUCATION

University of North Texas (Expected **Graduation** in **May 2025)**   **Denton, TX, USA**
Masters in Computer Science: **GPA - 4.00**
Indian Institute of Information Technology Kota   **Jaipur, India**
Bachelors in Computer Science: **GPA - 3.30**

SKILLS

Languages: C++, C#, Java, Python, C#, HTML, CSS, XML, JSON, JavaScript, Typescript
Frameworks: React Js, .NET, SQL, Scikit-Learn, React JS, Next.js, NoSQL, Spring
Tools: DevOps, CICD pipeline, Azure, Machine Learning, AWS, Git, RESTful API
Certifications: AWS Certified Developer - Associate

PROJECTS

Book Store App - Github - .NET framework, MySQL, C#, Entity Framework Core
- Delivered a **full-stack** app with seamless **CRUD** operations and robust authentication, boosting user efficiency by 30%.
- Accelerated query performance by 40%, ensuring instant **data retrieval** for a smoother user experience.

Team Chat App - Github - Next.js 13, React, Socket.io, Prisma, Tailwind, MySQL
- Built a real-time messaging platform enabling instant communication, reducing **latency** by 15% across all channels.
- Enhanced responsiveness with efficient real-time updates, improving **user engagement** metrics by 25%.