

SRILOKH KARUTURI

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SKILLS

Languages: Python, SQL, Cipher, Bash, JavaScript, TypeScript, R, Java, Go

Technologies: Docker, Podman, OpenShift, Kubernetes, Ansible, Ansible Lightspeed, IBM Cloud, Next.js, Jenkins, Node.js, Neo4j, WatsonX

Libraries: Pandas, NumPy, Scikit-learn, React.js, Tailwind, Streamlit, Express.js, TensorFlow, PyTorch, Transformers, NLTK

PROFESSIONAL EXPERIENCE

BlockTrace

Software Engineer

Remote

August 2023 - Present

- Actively developing ML applications for Digital Asset Forensics to enable non-technical investigators to craft complex queries written in SQL and Cipher.
- Architecting and building high performance pipelines that facilitate bulk data transfer between the Bitcoin blockchain and various graph databases.
- Automating BlockTrace's operational pain points utilizing cutting-edge AI technology like LLMs and Vector Stores.

IBM - Extreme Blue

Machine Learning Engineer Intern

Austin, TX, USA

May 2023 - August 2023

- Delivered on a ML system, tasked in delivering large-scale recommendations to existing IBM clients, automating 30% of the existing manual pipeline.
- Served as the primary MLOps/LLMOps Engineer, leading cloud deployment, networking, and containerization of various LLMs and microservices.
- Incorporated a range of statistical and AI techniques to develop a feature extraction system, achieving a 25% time reduction.
- Led the development and deployment of high-performance serving systems, collaborating closely with cross-functional teams of Data Scientists and AI Engineers.

IBM - Client Engineering

Software Engineering Co-op

Coppell, TX, USA

May 2022 - May 2023

- Provided deep technical pre-sales support for IBM's AI products by developing PoCs/MVPs and conducting technical architecture walk-throughs, and customer-facing technical workshops.
- Developed infrastructure automation applications by leveraging Infrastructure-as-Code (IaC) tools such as Ansible, significantly enhancing provisioning time by 3x.
- Regularly served as an OpenShift Cluster Administrator, assisting in node-level cluster provisioning, facilitating application deployment/debugging, and ensuring efficient cluster operations.
- Collaborated closely with Solution Architects, AI Engineers, and Data Scientists to successfully pinpoint and deliver technical sales assets.

BlockTrace

Software Engineer Consultant

Remote

August 2021 - May 2022

- Developed a high frequency data centric application responsible for "Multi Blockchain Data Aggregation" (Utilized by IRS).
- Created Python-based APIs and SDKs for Blockchain Forensics and Analytical Services, enabling secure data retrieval, standardized data cleansing, and acceleration of data-driven decisions.
- Facilitated data-driven decisions for blockchain investigations utilizing statistical programming language such as SQL, R, and Python.

PROJECTS & OUTSIDE EXPERIENCE

WeFitAI

- An IOS Application aimed to help individuals track daily nutrition through LLMs
- [Link to project](#)

Microsoft Verifiable Credentials

- Demonstrated Decentralized Verifiable Credentials as a replacement for UTD's existing auth flow
- Reached out by Microsoft for exemplary performance
- [Link to project](#)

Blackboard Task Microservice

- Enabled UTD students access to the Blackboard API through a headless scraping solution
- [Link to project](#)

EDUCATION

The University of Texas at Dallas

January 2021 - December 2023

Bachelor's, Computer Science

- Coursework: Machine Learning, Advanced Algorithm Analysis, Computational Methods for Data Scientists, Human Language Technologies
- Organizations: Artificial Intelligence Society