Tanmay Yatin Sankhe | Austin, Tx

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SUMMARY

Skilled software developer with a focus on building innovative software solutions, backed by over 4 years of practical experience. Proficient in Python and well-acquainted with cloud technologies, with a track record of optimizing and delivering 200+ web services. Recognized for leading teams and achieving outstanding results in hackathons.

TECHNICAL SKILLS

Languages: Python, C#, C++, Java
Web Development and Database: React JS, Flask, JavaScript, SQL, MongoDB
Cloud/Containerization: Azure, AWS, Kubernetes, Docker, YAML, Jenkins
Tools and Libraries: OpenCV, LangChain, TensorFlow, Keras, NLTK, Pandas, Git, Bash

WORK EXPERIENCE

Software Development - Research Assistant ***Sep 2023 – Present***
University of Texas at Arlington Texas, USA

- Collaborated with the CS department at UTA to develop a LLM, focusing on data retrieval and establishing connectivity with a web application. Developed a POC using Next.js and Python Flask, and seamlessly integrated it with a model through REST APIs.
- Implemented a data engineering pipeline using Apache Spark for efficient ETL of educational data, optimizing training and evaluation.
- Implemented RAG system using LangChain on educational data by creating vectors and using LLM to query data.
- Leveraged advanced prompt engineering techniques to customize Llama2 using Ollama and fine-tuned it for university's course-related data. *[Python, Apache Spark, PySpark, SQL, MongoDB, PyTorch, Ollama]*

Senior Software Engineer ***Aug 2019 – Nov 2021***
Microsoft - (L&T Infotech) Mumbai, India

- Contributed to the development of an internal Microsoft communication tool, utilizing SharePoint, MS Teams, and Azure infrastructure.
- Led the development of a client collaboration system, engaging stakeholders to gather requirements and design a seamless solution for sharing sites with external users, resulting in a significant uptake, with over 60% of users utilizing the tool within its inaugural month.
- Implemented a monitoring solution using Azure services to track discrepancies across over 6,000 SharePoint sites, enabling rapid response to production issues, providing detailed analytics, and resulting in a significant 20% reduction in problem resolution time.
- Designed and implemented a robust automation solution that optimized the management of 25,000 SharePoint documents, resulting in a substantial time savings of 30% and a remarkable increase in memory efficiency by 50%.
- Achieved a substantial 20% reduction in deployment time by leveraging Docker and Kubernetes, while implementing and maintaining CI/CD pipelines for seamless and efficient testing, building, and deployment of microservices.
- Mentored a team of five recent graduates, ensuring seamless integration into the project team. Conducted regular code reviews to maintain exceptional code quality, resulting in a 30% increase in productivity and reduced bugs.
- Managed the migration of legacy .NET code to Azure Cloud infrastructure utilizing Azure WebJobs and serverless functions. Simultaneously oversaw the migration of outdated JavaScript code to a modern React web application, resulting in a substantial increase in overall efficiency.
- Collaborated on implementing an automated solution, optimizing SharePoint site creation and reducing the time required from 6 hours to less than 1 hour, resulting in improved efficiency. *[Python, C#, Azure, JavaScript, React JS, Node.js, SharePoint]*

Associate Software Engineer ***Jan 2018 – May 2019***
Parality XR Pvt Ltd Ahmedabad, India

- Coordinated with multiple teams to conduct thorough system studies and requirements analyses. Led the creation of database objects, including tables and views, while focusing on designing and optimizing queries and REST APIs to meet project objectives.
- Achieved a 55% reduction in application latency by optimizing API response times to 500 milliseconds. Implemented a paging mechanism and caching strategy using Redis for user-specific data, alongside optimizing SQL query execution plans, data formatting using PL/SQL blocks, indexing of required columns, and partitioning of the table. *[Python, Flask, Oracle DB, Redis, JavaScript]*

EDUCATION

Masters of Science - Computer Science - University of Texas at Arlington Arlington, Texas
Relevant Courses: Neural Network, Data Mining, Distributed Systems, Cloud Computing and Big Data

Bachelors of Engineering - Computer Engineering - St. Francis Institute of Technology Mumbai
Relevant Courses: Machine Learning, Artificial Intelligence, Operating Systems

PUBLICATIONS

AirNote – Pen it Down! *ISBN: 978-1-5386-5906-9* – ***IEEE***

- Contributed to an innovative air-writing system based on hand gestures, awarded the Best Project Award in 2019 by the university.

Futuristic Finger and its Modern Day Applications. *ISBN: 978-1-7281-1772-0* – ***IEEE***

- Enhanced AirNote with innovative applications tailored for modern-day scenarios, securing 1st place at Mumbai Hackathon 2019.