Tanmay Y. Sankhe | Seattle, WA

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SUMMARY

Skilled software developer passionate about AI/ML, with more than 3 years of practical experience. Proficient in Python and well-acquainted with cloud technologies. Recognized for leading teams and achieving outstanding results in hackathons.

EDUCATION

Masters of Science - Computer Science - University of Texas at Arlington ***Jan 2022 – May 2023***

Relevant Courses: Neural Network, Data Mining, Distributed Systems, Cloud Computing and Big Data

Bachelors of Engineering - Computer Engineering - St. Francis Institute of Technology ***July 2015 – May 2019***

Relevant Courses: Machine Learning, Artificial Intelligence, Operating Systems

TECHNICAL SKILLS

Languages: Python, C#, Golang, C++, Java
Web Development and Database: React JS, Node.js, Flask, JavaScript, TypeScript, SQL, MongoDB
Cloud/Containerization: Azure, AWS, Heroku, Kubernetes, Docker, Jenkins
Tools and Libraries: OpenCV, TensorFlow, Keras, NLTK, Pandas, Android, Unity, Git, Bash

WORK EXPERIENCE

Volunteer Research Assistant ***Aug 2023 – Present***

University of Texas at Arlington Texas, USA

- Created a new dataset of course data to be used for training and evaluating LLMs, in collaboration with Professor.
- Customized Llama2 using Ollama and fine-tuned it for university's course-related data. [Python, PyTorch Ollama]

Senior Software Engineer ***Oct 2020 – Nov 2021***

LTIMindtree Mumbai, India

- Led the development of an innovative feature, transforming client collaboration through seamless sharing of sites with external users.
- 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.
- Achieved a substantial 30% reduction in deployment time by leveraging Docker and Kubernetes, while implementing and maintaining Jenkins CI/CD pipelines for seamless and efficient testing, building, and deployment of microservices.
- Mentored a team of 5 new graduates, fostering seamless integration into the project team. Conducted regular code reviews, ensuring adherence to industry best practices and maintaining exceptional code quality. [Python, C#, Azure, Kubernetes, JavaScript]

Software Engineer ***Aug 2019 – Oct 2020***

LTIMindtree Mumbai, India

- Engineered state-of-the-art contact recommendation feature, enhancing user experience and achieved a 4-star rating.
- Developed and integrated APIs to streamline email communication, facilitating seamless and secure exchange of information.
- 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%.
- 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. [C#, Python, JavaScript, React JS, Node.js Azure, SharePoint]

Associate Software Engineer ***Jan 2018 – Feb 2019***

Vtechelite Pvt Ltd Ahmedabad, India

- Developed dynamic and user-friendly webpages using a combination of JavaScript, HTML, and other web technologies.
- Created interactive forms that enabled users to submit feedback, and stored data directly into the database. [HTML, JavaScript, CSS, SQL]

PUBLICATIONS

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

- Researched and contributed to the development of AirNote, an innovative writing system based on hand gestures.
- Implemented a real-time fingertip and hand gesture detection model using RCNN with accuracy of 97%.
- Recognized with the esteemed Best Paper and Best Project Awards in 2019 by the university's Department of Computer Science.

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

- Enhanced AirNote by exploring applications for modern-day scenarios and conducting comprehensive testing to assess their viability.
- Attained 1st place at Mumbai Hackathon 2019, an Annual open-source Hackathon, for the implementation of the applications.

KEY ACADEMIC PROJECTS

Reinforcement Learning using OpenAI Gymnasium Environment

- Trained and tested Reinforcement models for Cart Pole and Mountain car environments, achieving successful performance for 500 steps.

Testing Suite for Autonomous Vehicles

- Designed and built test cases for ADAS (Advanced driver-assistance system) systems on CARLA simulator.