BHUVAN THIRWANI

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Summary

Full Stack Developer at an electric vehicle manufacturing company with experience in pioneering software features and data pipeline construction. Exhibited technical proficiency through impactful projects like developing a computer vision system, implementing Docker and Kubernetes for scalability, and constructing real-time telemetry data pipelines using Apache Kafka and Flink. Pursuing a Masters degree, eager to contribute and grow during a Software Engineering Internship at a tech company by leveraging skills in building new features and designing robust software solutions.

Skills

- **Technologies**: AWS, Docker, Kubernetes, Apache Kafka, Flink, PCAN, Grafana, Redis, Git, CI-CD
- **Languages**: Python, Typescript, Javascript, SQL, NoSQL, Machine Learning, Deep Learning, Nodejs, Java
- **Frameworks**: Flask, Pandas, Reactjs, Nextjs
- **Foundational Knowledge**: Software development understanding, Computer science skills

Work Experience

Euler Motors **Jul 2022 - Aug 2024**
Member of Technical Staff-1 *Delhi, India*
Owned 2 AI-based software products. Developed a pioneering vehicle hardware data extraction feature, boosting electrical component testing. Applied advanced analytics to monitor vehicle performance and detect issues remotely via cloud networking.

- Developed real-time data pipeline using Apache Kafka and Flink for processing vehicle telemetry data.
- Created visual representations of KPIs for financiers using real-time data from 5000 EVs, improving decision-making processes.
- Implemented Docker and Kubernetes for project deployment, enhancing platform efficiency and scalability.

Paytm Money **Jan 2022 - Jun 2022**
Software Engineer Intern *Noida, India*
Implemented live feed data for 7000 stocks using Asynchronous Node.js and WebSocket technology, ensuring seamless data delivery. Completed load testing for 100,000 customers, incorporating quantitative methods and networking protocols.

- Reduced real-time stock market data latency from 400ms to 2ms using reactive programming with Spring Boot, MySQL, and Redis Cache in Java 8.

DRDO **Apr 2021 - Jul 2021**
Machine Learning Intern *Chandigarh, India*
Research and Development on techniques to evaluate inaccessible terrains mobility.

- Created Landslide Prediction Model & Landslide Susceptibility Index Map for Search and Rescue team.
- Used Oversampling and Undersampling techniques, GRID SEARCH CV with Weighted Decision Tree model & Naive Bayes model for prediction.
- Implemented Frequency Ratio & Multi-Criteria Decision techniques for generating vulnerability map with 99% accuracy.

Education

University at Buffalo, State University of New York **Aug 2024 - Present**
Master of Science, Computer Science & Engineering

Indian Institute of Information Technology Pune **Jan 2018 - Jan 2022**
B.Tech, Computer Science & Engineering

Projects

User & Identity Access Management System **Jan 2024 - Jul 2024**

- Developed a comprehensive User & Identity Access Management System integrating users, roles, actions, resources & apps.
- Implemented granular control over user permissions and resource access across multiple applications, utilizing SQL for efficient data management for more than 10 Million Users

AI Proctoring System using Deep Learning Techniques **Aug 2021 - Nov 2021**

- Designed a Web Application for conducting online exams with 15+ features for Students and Professors.
- Performed Eye Tracking, Face Authentication & Security, Head Movement Tracking, Mobile Phone Detection, Multiple Person Detection, Tab/ Window Switching & Voice Detection to monitor 1000 Students simultaneously.
- Composed a Research Paper (Under Review) - Proctoring System using Deep Learning Techniques in AIRHS 22 National Virtual Conference on AI for Resilient Happy Society.

Certifications

- **Machine Learning by Andrew NG**: Coursera, authorized by Stanford University.
- **AWS Cloud Practitioner Essentials**: Amazon Web Services.
- **Algorithmic Toolbox**: by University of California San Diego - Coursera.