

Bhuvan Thirwani

Fullstack Developer

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SUMMARY

Full Stack Developer with more than **2 years** of experience in technologies such as **AWS, Python, ReactJs, Kafka, Flink, Docker & Kubernetes**. Pursuing **MS in CSE** from **SUNY Buffalo**. Seeking Summer Internships for 2025. Owns 2 Software Products in Electric Vehicle Manufacturing Plant. Fast learner with good problem solving skills.

TECHNICAL SKILLS

Technologies: AWS Infrastructure, Docker, Kubernetes, Apache Kafka, Grafana, Redis, Git, CI-CD, DevOps, Ansible Terraform

Languages: Python, Typescript, Javascript, SQL, NoSQL, Machine Learning, Deep Learning, Nodejs, Java, Go

Frameworks: Flask, Pandas, Reactjs, Nextjs

Others: Algorithms, Bash, Database Design, Excel, Linux, Optimization, Software Development Lifecycle, Version Control

EXPERIENCE

Member of Technical Staff-1

July 2022 - August 2024

Euler Motors, New Delhi - it's an electric vehicle manufacturing company.

Delhi, India

- Owns 2 AI Based Software Products Developed pioneered feature for vehicle hardware data extraction & boosted electrical components testing by 500% using **Computer Vision** System. Applied advanced Analytics to monitor vehicle performance and detect issues remotely via cloud Networking.
- Developed Realtime data pipeline using Apache Kafka & Flink for processing realtime telemetry data of vehicles.
- Created visual representations of KPIs for financiers using real-time data of 5000 EVs, resulting in improved decision-making
- Implemented **Docker** and **Kubernetes** for projects deployment, elevating platform efficiency and scalability by 5 times.

Software Engineer Intern

Jan 2022 - June 2022

Paytm Money, Fintech Oraganisation involve in Stock Market

Noida, India

- Implemented Live Feed Data of 7000 Stocks using Asynchronous **NodeJS** and **Websocket** Technology & Completed Load - testing for 100,000 customers simultaneously. Utilized Quantitative methods and Networking protocols to optimize data delivery and performance.
- Reduced the Realtime stock market data latency from 400ms to 2ms using reactive programming- **Springboot** (MVC), **MySQL** and **Redis** Cache using Java - 8.

Machine Learning Research Intern

April 2021 - Jul 2021

DRDO, Research and Development on techniques to evaluate inaccessible terrains mobility.

Chandigarh, India

- 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 & **Naïve Bayes** model for prediction.
- Implemented Frequency Ratio & Multi-Criteria Decision techniques for generating vulnerability map with 99% accuracy.

PROJECTS

User & Identity Access Management System | Python, Flask, Reactjs, SQL

Jan 2024 - July 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 | Deep Learning, Flask, Reactjs, SQL

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.

EDUCATION

University at Buffalo, State University of New York

Buffalo, NY, USA

Master of Science in Computer Science & Engineering

Aug 2024 - Present

Indian Institute of Information Technology Pune

Pune, India

B.Tech in Computer Science & Engineering

2018 - 2022

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.