

# Bhuvan Thirwani

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## EDUCATION

### University at Buffalo, State University of New York

*Master of Science in Computer Science*

Buffalo, NY, USA

August 2024 - Present

### Indian Institute of Information Technology Pune

*Bachelor of Technology in Computer Science & Engineering*

Pune, India

August 2018 - June 2022

## TECHNICAL SKILLS

**Technologies:** AWS, GCP, Docker, Kubernetes, Apache Airflow, Apache Spark, LLMs, Prompt Engineering, Grafana, CI/CD, Machine Learning, PostgreSQL, NoSQL, AJAX, XML

**Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, C++, Html, Css

**Frameworks & Tools:** Flask, Django, FastAPI, Node.js, Spring Boot, Reactjs, Next.js, Angular, Vue, Git, PyTorch, Scikit-Learn, LangChain, LangGraph, MCP, JUnit, Selenium

**Core:** Object-oriented Design Solutions, Technical Documentation, Communication Skills, Leadership, Teamwork, Problem Solving Skills, error recovery, retrieval-augmented generation (RAG)

## EXPERIENCE

### Software AI Intern

### Salesforce

May 2025 - August 2025

- Designed scalable **ETL pipelines** to process over **2 Billion weekly metrics** for reporting tools using **Apache Airflow & Apache Spark**.
- Automated root cause analysis for distributed servers managing **19,000 TB** of cloud data, reducing operational downtime by **50%**.
- Engineered interactive dashboards to visualize incident patterns, improving observability and accelerating **issue resolution time** by **40%**.
- Designed Feedback based **Agentic AI system** using GPT models to perform root cause diagnostics, enabling infrastructure intelligence.

### Member of Technical Staff-1

### Euler Motors

July 2022 - August 2024

- Led end-to-end development of **2 AI Based Software Products** and developed a pioneering feature for vehicle hardware data extraction & boosted electrical components testing by **300%** using **Computer Vision System** for stakeholders.
- Collaborated on advanced analytics to monitor vehicle performance and detect issues remotely via cloud, minimizing downtime by **30%**.
- Engineered Real-time data pipeline using **Apache Kafka & Flink** for processing real-time telemetry data of vehicles.
- Orchestrated **Docker** and **Kubernetes** pipelines for projects deployment status, elevating platform efficiency and scalability by **5 times**.

### Software Engineer Intern

### Paytm Money

January 2022 - June 2022

- Implemented Live Feed Data of **7000 Stocks** using Asynchronous **NodeJS** and **WebSocket** Technology.
- Enhanced system capacity through load testing for **100,000 shadow customers** simultaneously. Utilized quantitative methods and networking protocols to optimize data delivery and performance of the Product.
- Optimized the Real-time stock market data latency from **400ms** to **2ms** using **Spring Boot (MVC), MySQL** and **Redis** Cache using Java - 8.

### Research Intern

### DRDO

April 2021 - July 2021

- Utilized **Oversampling** and **Undersampling** techniques, **GRID CV** with weighted **Decision Tree** model for Landslide Prediction.
- Innovated Frequency Ratio & Multi-Criteria Decision techniques for generating vulnerability map with **99%** accuracy.

## PROJECTS

### EmailWhiz - Bulk Cold Emailer

November 2024 - Present

- A **Django** based Web Application, enables users to send **100,000** personalized cold emails & Automated follow-ups with **Google Oauth**.
- Introduced innovative use of **AI** to build **Agentic AI system** for automating template generation, reducing email creation time by **50%**.

### ATS Resume Optimizer

January 2026 - Present

- Architected **AI Agent** using **LangChain & Gemini**, boosting **ATS match scores** to **90%+** & reducing tailoring time by **95%**.
- Deployed scalable **Dockerized** application with **Nginx**, ensuring **100%** schema validation reliability across **3+ LLM providers**.

### Real-Time EV-Tracker

July 2022 - December 2022

- Developed a user-friendly, real-time dashboard to monitor live data for up to **10,000** vehicles simultaneously.
- Implemented Cron jobs to synchronize **Redis** and **PostgreSQL** databases, optimizing system performance.
- Leveraged Amazon Glacier for Long-term storage and retrieval of vehicle data, archiving records beyond **90 days** for up to a year.

### AI Proctoring System using Deep Learning Techniques

August 2021 - November 2021

- Built a Web Application and 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**: Proctoring System using DL Techniques in AIRHS 22 Conference on AI for Resilient Happy Society.

## CERTIFICATIONS

Machine Learning (Stanford/Andrew Ng) | AWS Cloud Practitioner Essentials | Algorithmic Toolbox (UC San Diego)