

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, NestJS, Tailwind CSS, shadcn **Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, C++, Html, Css **Frameworks & Tools:** Flask, Django, FastAPI, Node.js, Spring, Reactjs, Next.js, Git, PyTorch, Scikit-Learn, LangChain, LangGraph, MCP **Core:** Object-oriented Design Solutions, Technical Documentation, Communication Skills, Leadership, Teamwork, Problem Solving Skills

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 Springboot (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 | Langchain, AI Agents, Gemini, Oauth, Django, JavaScript | [Link](#)

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 | Streamlit, LangChain, Gemini, Docker, Nginx | [Link](#)

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 | React, Redis, Python, Flask, AWS S3, Druid DB, Amazon Kinesis | [Link](#)

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 | Deep Learning, Flask, React.js, SQL | [Link](#)

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)