Bhuvan Thirwani

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EDUCATION

University at Buffalo, State University of New York   Buffalo, NY, USA
Master of Science in Computer Science   *August 2024 - Present*

Indian Institute of Information Technology Pune   Pune, India
Bachelor of Technology in Computer Science & Engineering   *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 | *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)