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
- Cassandra
- Elasticsearch

Programming Languages:

- Python
- Java
- JavaScript
- TypeScript
- SQL
- C++
- Html
- Css
- Go

Frameworks & Tools:

- Flask
- Django
- FastAPI
- Node.js
- Spring
- Spring Boot
- Reactjs
- Next.js
- Redux
- Git
- PyTorch
- Scikit-Learn

- LangChain
- LangGraph
- MCP
- Gradle

Core:

- Object-oriented Design Solutions
- Technical Documentation
- Communication Skills
- Leadership
- Teamwork
- Problem Solving Skills
- US Security clearance

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.

Al 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 Al for Resilient Happy Society.

CERTIFICATIONS

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