Contact

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bhuvanthirwani.github.io/ (Portfolio)
github.com/bhuvanthirwani (Other)
www.leetcode.com/bhuvanthirwani (Other)

Top Skills

Database Management Systems (Grade: 8/10)
Distributed Operating Systems (Grade: 10/10)
Operating Systems (Grade: A)

Certifications

Algorithmic Toolbox by UC San Diego
Amazon Web Services Cloud Practitioner
Machine Learning by Andrew NG

Bhuvan Thirwani

Ex-SWE Intern @Salesforce | AI Agents | LLMs Prompt Engineering | Langchain | FullStack Developer | MSCS @SUNY BUFFALO | Python | Kubernetes | AWS Cloud | Docker | ReactJS | Java | DSA | PostgreSQL | Machine Learning

San Francisco, California, United States

Summary

Hi, I'm Bhuvan Thirwani, a results-driven Software Engineer with 2+ years of experience in building cutting-edge technology solutions. Currently pursuing an MS in Computer Science at the University at Buffalo, I specialize in designing scalable systems, deploying AI-driven models, and leveraging cloud technologies to deliver impactful outcomes.

Technical Expertise
• AI Agents: LLMs, Langchain, Prompt Engineering
• Full-Stack Development: React.js, Next.js, Node.js, Django, Flask.
• Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD pipelines.
• Real-Time Systems: Apache Kafka, Redis, Apache Flink.
• Machine Learning: Building, training, and deploying models for real-world problems.

Currently, I'm a Software Engineer Intern at Salesforce (AWS S3 Distributed Systems Team), where I'm:
• Building ETL pipelines for processing 1B+ daily metrics to power reporting, governance, and capacity planning.
• Automating root cause analysis for 19,000+ TB of cloud data to reduce downtime by 50%.
• Developing an AI Agentic GPT-based system for dynamic root cause investigation, integrated with custom observability dashboards.

Key Achievements
• Led end-to-end development of Software Products & Designed Computer Vision based Manufacturing OS.
• Boosted component testing by 500% by designing an AI-powered computer vision solution.

• Reduced stock market data latency from 400ms to 2ms for Paytm Money.
• Processed real-time telemetry for 10,000+ vehicles using Kafka and Flink.

What Drives Me
I thrive in solving complex challenges, learning emerging technologies, and building impactful products that make a difference. My dedication to excellence and innovation ensures I stay adaptable and proactive in fast-paced environments.

Beyond Tech
I’m passionate about mentoring aspiring developers, contributing to open-source projects, and exploring ways to use technology to promote education and accessibility.

Let’s Collaborate
Looking to create scalable, tech-driven solutions together? Let’s connect!

https://github.com/bhuvanthirwani
http://www.leetcode.com/bhuvanthirwani
https://www.bhuvanthirwani.github.io

Experience

Salesforce
Software Engineer Intern | ☁#Distributed Systems | AWS S3 | AI Agents | Prompt Engineering
May 2025 - August 2025 (4 months)
San Francisco Bay Area

• Designed and implemented scalable ETL pipelines using Apache Airflow and Apache Spark to process over 2B+ weekly metrics for reporting, data discovery, and capacity planning.
• Automated root cause analysis across distributed systems managing 19,000+ TB of cloud data, reducing downtime by 50%.
• Built interactive dashboards to visualize incident patterns and anomalies, improving system observability and cutting issue resolution time by 40%.

• Currently developing an Agentic AI solution using GPT-based models to power dynamic root cause analysis and enhance infrastructure intelligence in real time.

Freelance

Freelance Software Developer (Open to Opportunities) | Web Development | Automation

August 2020 - April 2025 (4 years 9 months)

• Full-Stack Development Pro: Skilled in building scalable web applications with cutting-edge tools and frameworks like React, Flask, and Django.
• Cloud & DevOps Expertise: Proficient in AWS ☁#, Docker , Kubernetes, and CI/CD pipelines for efficient deployment and automation.
• Real-Time Data Processing: Hands-on experience with Kafka, Redis, and advanced data pipelines for - low-latency performance.
• Machine Learning Integration: Developed and deployed ML models into live systems for enhanced automation and smarter solutions.
• Problem-Solving Mindset: Fast learner and dedicated team player focused on delivering impactful, efficient solutions.
• Collaborative Approach: Thrive in dynamic environments, translating technical challenges into actionable results while collaborating with cross-functional teams.

Euler Motors

Member of Technical Staff - I | FullStack Development | Product Owner

July 2022 - August 2024 (2 years 2 months)

Delhi, India

• Led end-to-end development of 2 Software Products in this organization.
• Led the development of a feature enabling data reading from vehicle's hardware components, increasing testing efficiency by 500%.
• Automated the Electric Vehicle Manufacturing Plant using camera based AI Systems.
• Implemented a software-based quality control process to detect problems in vehicles remotely over the cloud, minimizing downtime by 30%.
• Orchestrated Docker and Kubernetes to scale up the platform, increasing efficiency and scalability by 5 times.
• Generated visual representations of key performance indicators (KPIs) for financers using real-time data of electric vehicles.

Paytm Money

Software Engineering Intern | Research | Stocks Dashboard

January 2022 - June 2022 (6 months)

Noida

• Developed Live Feed Data of the Stock Market using Asynchronous Node.js and Websocket Technology.
• Conducted load testing for 100,000 customers simultaneously to measure project performance.
• Reduced the Real-time stock data latency from 400ms to 2ms (99.5% improvement).
• Achieved the 1st B2B model of Paytm with innovative technology solutions.
• Created CRUD APIs from scratch using SpringBoot, MySQL, and Redis Cache.

Defence Research and Development Laboratory (DRDL) - DRDO

Machine Learning Research Intern | Research | Machine Learning Applications
April 2021 - July 2021 (4 months)
Chandigarh, India

• Developed landslide susceptibility mapping models using Frequency Ratio and Analytic Hierarchy Process (AHP) techniques.
• Implemented machine learning algorithms - Grid CV Weighted Decision Trees & Naïve Bayes for landslide prediction:
• Applied Oversampling, under-sampling techniques to explore different results.
• Preprocessed and analyzed a dataset of over 1.2 million data points, applying 3 different binning techniques to handle imbalanced classes.
• Identified key landslide-controlling factors through AHP, with slope and road proximity having the highest weights in the susceptibility model.

Education

University at Buffalo

Master of Science - MS, Computer Science · (August 2024 - May 2026)

Indian Institute of Information Technology, Pune

Bachelor of Technology - BTech, Computer Science and Engineering · (August 2018)