Rohith Gowda Devaraju

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SUMMARY

Analytical and solutions-driven Software Engineer with industry experience at Boeing and GyanSys. Proficient in Python, Docker, full-stack development, and HPC scripting. Developed and deployed LLM-integrated systems with CI/CD pipelines. Contributed to impactful research in sign language recognition, traffic optimization, and phishing detection.

EDUCATION

Indiana University Bloomington | MS, Computer Science | Bloomington, Indiana | May 2027
Coursework: Applied Algorithms, Big Data Applications, Software Engineering

Visvesvaraya Technological University | BE, Computer Science | GPA: **8.27/10.0**   Bengaluru, India | May 2024
Coursework: Data Structures, Object Oriented Programming, Cloud Computing

WORK EXPERIENCE

Software Engineer   Bengaluru, India
Boeing   September 2024 – Present
- Developed and reviewed 150+ ADA procedures and 60+ test cases for International Space Station software systems, enhancing reliability and compliance.
- Containerized applications using Docker and automated CI/CD pipelines via GitLab, reducing manual deployment efforts by 80%.
- Engineered an LLM-integrated chatbot with FastAPI and Angular, improving user response accuracy by 40%.
- Boosted HPC runtime efficiency by 60% through parallel scripting using PBS and Python on clustered Linux environments.

Salesforce Intern   Bengaluru, India
GyanSys   January 2024 – May 2024
- Created a Salesforce-based Hospital Management System managing 500+ patient records,appointments, and medical histories,reducing manual overhead by 70%.
- Configured 10+ custom objects, role-based access controls, and SLDS-based Lightning App Pages, improving UI responsiveness and data integrity.
- Automated workflows using Process Builder and Flows to streamline operations.

Software Intern   Bengaluru, India
Light of The Self Foundation (NGO)   May 2023 – November 2023
- Developed speech-to-text and DOCX-to-MP3 conversion pipelines, facilitating accessibility for 100+ end users.
- Developed multilingual GUI tools and avatar generator transforming photos into MP4 avatars for educational content.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, HTML, CSS, Apex, ADA
AI/ML Tools: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy
Big Data & Cloud: Spark, Hadoop, HDFS, Delta Lake, AWS, Azure; **Databases**: MySQL, PostgreSQL, Supabase
Frameworks/Tools:: React, Next.js, Flask, Node.js, Streamlit, Tailwind CSS, FastAPI
DevOps & Web: Prometheus, Grafana, PBS scripting, Docker, Git, Kubernetes, AWS, Azure, CI/CD, GitLab, GitHub Actions

PROJECTS

Phishing Detection Website | *Anaconda, Flask, Python, Sklearn* | GitHub
- Designed an ML-based detection system achieving 92% accuracy on a dataset of 10,000+ URLs.
- Integrated list-based, similarity-based, and ML detection methods to reduce phishing exposure impacting 33M+ users.

MuteSign: Deep Learning Sign Language Recognition | *TensorFlow/Keras, OpenCV, Python, Scikit-learn, Pandas* | DOI
- Achieved 96% accuracy using CNN and RNN models across 1,000+ sign language videos.
- Built end-to-end gesture recognition pipeline: data acquisition → preprocessing → classification.

Artha - AI Finance Platform | *Python, Next.js, Supabase, Gemini AI, Streamlit* | GitHub
- Implemented a full-stack finance dashboard with LLM-powered features for receipt scanning, categorization, and insights.
- Integrated Clerk auth, Resend email API, and Inngest workflows for real-time budget alerts.

CERTIFICATIONS & AWARDS

- Obtained **AWS Cloud Practitioner Essentials (Getting Started)**.
- Earned **National Scholarship** by **Government of India for outstanding academic achievement**.
- Obtained **Microsoft Azure Fundamentals AZ-900**.