

Rohith Pavuluru

+1 (930) 333-4291 | rohithpavuluru09@gmail.com | linkedin.com/in/pavuluru-rohith | rohith-pavuluru-portfolio.vercel.app
github.com/PavuluruRohith

EXECUTIVE PROFILE

Software Engineer with robust experience in **full-stack development**, **DevOps**, and **cloud solutions**. Specializing in **Python**, **Java**, **React**, and **Docker**, I apply a strong CS foundation to **optimize complex systems**. Proven in delivering innovative solutions across **web and data platforms**, with demonstrated success in **technical leadership** and **project execution**.

EDUCATION

Masters in Computer Science | Indiana University Bloomington | CGPA: 3.97 | May 2025

Bachelor of Engineering | BMS Institute of Technology and Management | CGPA: 9.11 | May 2023

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, Go, SQL

Web Development & Testing: HTML5, CSS3, Tailwind, JavaScript, React, Node.js, Next.js, Django, Selenium

Databases & Cloud Computing: MongoDB, MySQL, AWS (Amazon Web Services), GCP (Google Cloud), SQLite

Data Science & Machine Learning: PyTorch, Scikit-learn, OpenCV, Pandas, Numpy, Matplotlib

Cloud & DevOps: Git, Docker, Jenkins, CI/CD (GitHub Actions, GitLab), Kubernetes

Tools & Platforms: Postman, UFT, Jira, UIPath Studio, Android Studio, Firebase, Linux, Tableau, Power BI

EXPERIENCE

Software Engineer

Jan 2025 – Jul 2025

Indiana University Bloomington

Bloomington, IN

- Spearheaded development of a **quiz-based Smart Feedback System (tabletop)** leveraging **AWS for automated quiz generation** and secure data storage. System incorporates intuitive **drag-and-drop** and **image grouping** functionalities.
- Established **smart feedback system** intended to achieve **3x more qualitative feedback**, and helped generate 1,000+ unique interpretations that **enhanced valuable curatorial insights** and **bias analysis**.
- This involved designing **intuitive UI/UX components** to ensure a highly interactive and efficient data collection process.

DevOps Engineer

Feb 2023 – Jul 2023

Nokia Solutions and Networks

Bengaluru, India

- Engineered large-scale, proactive monitoring solutions using **Alertmanager**, **Grafana**, and **Kafka**, boosting system reliability by **22%** and sharpening incident response.
- Led design and implementation of dynamic **OpenSearch** log management, enhancing data integrity and compliance in distributed environments.
- Optimized CI/CD pipelines with **Kubernetes**, **Docker**, and **Helm**, accelerating deployments by **25%** and achieving **50% Docker image size reduction**.
- Championed software quality via rigorous **JUnit** and **end-to-end testing**, maintaining **92.4% code coverage** for robust, defect-free deployments.

Software Engineer

Jul 2022 – Oct 2022

Nano Robotics Embed Technologies

Bengaluru, India

- Developed **advanced weather forecasting model**, boosting **accuracy by 12%**. Integrated **real-time sensor data** via **AWS IoT Core**, **Lambda**, **Kinesis**, **Timestream**, **S3** with **IMD**, using **Bayesian Neural Networks** on **SageMaker**.
- Processed **1M+ data points**, creating **15+ Tableau visualizations**. Applied **subtractive clustering** to identify **micro-climates** and refine patterns.
- Designed a **real-time alert system** for extreme weather, sending **WhatsApp notifications via Twilio API** (10km radius), enhancing public safety.

Software Engineer

Feb 2021 – Jun 2022

Pramahasoft Solutions Pvt Ltd

Hyderabad, India

- Architected scalable **data pipelines** using **Infor Data Lake** for **ERP/CRM data**, integrating **Infor ION** to process 200,000+ transactions hourly with **98.92% data accuracy** for reporting.
- Implemented **real-time data streaming** via **ION API**, automating workflows with **Pandas**, **NumPy**, **SQL** to **enhance accuracy**, eliminating manual interventions.
- Leveraged **Snowflake Data Warehouse** to create 50+ Tableau dashboards on **Tableau Server**, empowering **real-time data visualization** and **data-driven decision-making**.
- Established a **centralized reporting infrastructure** with **Snowflake** and **Tableau**, accelerating report generation by 40% while enhancing processing capacity to handle **2x larger datasets** and **traffic volume**.

PROJECTS

CourseCraft | *Firebase, AWS, Google API, Duo Authentication API*

- Engineered a **scalable full-stack LMS backend** with **Firebase** and **AWS**. Enhanced **system security** by integrating **user MFA** via **Google API** and **Duo Authentication API**.
- Contributed to **full-stack development** including **differentiated dashboards** for professors/students. Enabled diverse **assignment creation/grading** and **submission formats**.

Smart Form | *Django, NLP, Cosine Similarity*

- Implemented a **duplicate detection feature** using **NLP** and **cosine similarity**, resulting in **95% accuracy** and a **40% reduction in project selection time**.
- Constructed a **full-stack Django application** with a **user-centric design** that **improved task completion rates by 35%** and earned a **4.8/5 user feedback score**.
- Orchestrated the deployment of the application to **5 university departments**, serving over **1,000+ students and faculty** and **streamlining institutional project workflows**.