Mahesh Polisetty

https://www.linkedin.com/in/mahesh-polisetty-aa7a41146/
https://github.com/Mahesh-Polisetty

Email: pmbhupathibalu@gmail.com
Mobile: +1-940-333-5577

Objective

Highly motivated aspiring Software Engineer seeking full-time or internship opportunities to apply a strong foundation in Python programming, Data Analytics, Artificial Intelligence, and Machine Learning. Eager to contribute to innovative, data-driven solutions and grow within dynamic engineering teams.

Education

- **University of North Texas** — Denton, Texas
  Master of Science - Data Engineering; GPA: 3.81/4 — *August 2023 - Presemt*
  Coursework and Interests: *Machine Learning, Data Structures, Natural Language Processing, Analysis of Algorithms, Artificial Intelligence, Data Analysis, Database Management, Data Mining, Large Language Models, RAG, Agentic AI, Generative AI.*

Skills

- **Languages**: Python, Java, SQL, JavaScript
- **Frameworks**: Bootstrap, Django, Flask, SpringBoot, React
- **Libraries**: Pandas, Seaborn, Tensorflow, Scikit, jQuery, NLTK
- **Tools and Methodologies**: Tableau, Postman, NodeJs, Selenium, BDD Cucumber, Kotlin, GitHub, MySQL, MongoDB, Jira, Figma, Agile Methodology
- **Platforms**: VsCode, Linux, Windows, GCP

Experience

- **CGI Inc. - CIGNA**
  Associate Software Engineer — *May 2022 - June 2023*
- Designed and developed RESTful webservices using Springboot, JSP and microservices ensuring seamless appplication functionality and utilized MongoDb for Database operations.
- Worked on Responsive Web Designing for mobiles and tablets using JavaScript, jQuery and CSS and performed cross browser testing using cloud-based tool improving better responsiveness.
- Leveraged CI/CD pipelines for in house application deployments and also have understanding on Jenkins and UDeploy.
- Played a key role in developing an enterprise API which validates customer's bank information ensuring accuracy and security in transactions and an email and phone verification API which ensures domain verification, spam protection and country specific rules using JEXL script, JavaScript.
- Used BDD approach to develop web UI tests using Cucumber, Gherkin, Kotlin and Selenium WebDriver.
- Developed test scripts and written test cases for the enterprise applications based on the business requirements to perform UI Automation.
- Developed single page applications with dynamic view for enhancing user experience.
- Great knowledge in healthcare domain and Insurance claim processes.

- **CGI Inc.**
  Software Engineer Intern — *April 2021 - May 2022*
- Built and developed small scale applications using Java, Springboot.
- Developed and launched 3 responsive web applications using HTML, CSS, JavaScript enhancing user experience and functionality.
- Designing and managing databases using SQL and NoSQL technologies to support web applications and worked closely with senior developers team members to contribute to project goals
- Debugging, identifying and resolving software issues related to the web applications to ensuring original functionality.

Projects

- **MediCall – Conversational AI for Hospital Scheduling — Hackathon Winner**: Built a voice-based assistant to automate appointment scheduling using Gemini 2.0 LLM, React, Supabase, and serverless Netlify Functions. Enabled real-time speech-to-text and text-to-speech interactions, improving accessibility for patients by reducing reliance on busy hospital phone lines. Designed for scalability with modular tool functions and webhook-based call summaries. Utilized GitHub Copilot to accelerate integration and streamline development. (April '25)
- **Predictive Analytics for GDP forecasting using ML and Time Series Models:**: Developed a predictive analytics model leveraging Random Forest and ARIMA on a 50-year, 1M+ record World Bank dataset to analyze GDP trends for the top 20 global economies. The model facilitates understanding of macroeconomic factors and optimizes financial planning, evaluated using MAE, MSE, and RMSE. Implemented using Python (Pandas, Scikit-learn, Plotly, Tensorflow, Statsmodels) in Jupyter Notebook. (December '24)
- **Plant disease detection using Deep learning and Image Processing:**: Developed a computer vision model leveraging CNN and SVM to classify plant leaf health from a 7500+ high-resolution image dataset. This automated system significantly reduces manual inspection time for early disease detection and improves classification accuracy. Implemented using Python (OpenCV, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib).(July '24)
- **Data driven Box Office and Cinematic Trends Analysis:**: Led an Exploratory Data Analysis project on a 60-year, 45,000+ movie dataset, uncovering key trends in budget, revenue, and genre. Transformed millions of JSON records into a structured format for analysis and visualized findings using Tableau, Python (Pandas, Matplotlib, Plotly, Seaborn), and interactive dashboards built with HTML, CSS, Bootstrap, and JavaScript. (April '24)