Basil Binu

Email: basilmukkadackal@gmail.com | Phone: +91 9961040277
Address: Mukkadakkal , Irimpanam P.O, Ernakulam , Kerala
LinkedIn | GitHub

OBJECTIVE

Highly motivated Software Developer with expertise in Python, C++, and Java. Hands-on experience in full-stack development, machine learning, and web technologies like HTML, CSS, and JavaScript. Proficient in working with databases like MySQL .

CORE COMPETENCIES

- Programming Languages: Python, Java, C
- AI/ML Frameworks: TensorFlow, PyTorch,
- Data Analysis & Preprocessing: Pandas, NumPy
- Development Tools: Git, VS Code, PhpMyAdmin
- Web Technologies: HTML, CSS, JavaScript
- Databases: MySQL,
- Additional Skills: OOP Concepts, Excel Proficiency, Agile Methedologies

PROFESSIONAL EXPERIENCE

NeST Cyber Campus Cyber Security Intern
Collaborated in an Agile environment to enhance cloud infrastructure security, implementing automation for monitoring using Bash/Shell scripting. Troubleshot and resolved technical issues in cloud systems, contributing to enhanced system stability and security.

PROJECTS

Backlog Tracker **Apr 2023 - Aug 2023**

Technologies: PHP, MySQL, HTML, CSS
Designed a full-stack web application that tracks student academic backlogs, integrating data storage and management through MySQL. Automated deployment processes through CI/CD pipelines for seamless application updates and bug fixes.

Parkinsights – GitHub **Feb 2024 - May 2024**

Technologies: Jupyter Notebook, Python, Flask, Pandas, CSS
Developed a machine learning model to predict Parkinson's disease using data pre-processing techniques and feature engineering. Integrated a Flask-based API to deploy the model with a responsive front-end, ensuring real-time interaction for end-users. Optimized performance through neural networks and ensured continuous integration with Git and an automated CI/CD pipeline.

AI Engineering Assignments – Image Processing & LLM Automation **June 2025**

GitHub: github.com/basi1l
Built an RGB-Thermal Overlay pipeline (Task 1) to combine aerial RGB and thermal images using OpenCV, automating batch alignment and visualization for damage inspection.
– Technologies: Python, NumPy, OpenCV
Implemented a Change Detection system (Task 2) to identify missing/damaged structures by comparing aligned image pairs using thresholding, blurring, and contour analysis.
– Output: Bounding-box overlays on missing elements
Designed a Streamlit-based GLR Generator (Task 3) integrating OpenRouter LLMs to fill insurance templates (USAA, Wayne, GuideOne) from PDF photo reports.
– Technologies: Python, Streamlit, PyMuPDF, docx, OpenRouter API
– Supports auto template detection, LLM field extraction, and downloadable .docx output.

EDUCATION

Bachelor of Technology in Information Technology
Rajagiri School of Engineering and Technology — Kerala, India
November 2020 - July 2024
CGPA: 8.25

XII - Computer Science
Cardinal HSS Thrikkakara — Kerala, India

July 2018 - May 2020
Percentage - 94.08

CERTIFICATIONS

- Git and GitHub Workshop – Rajagiri School of Engineering and Technology
- Capacity Building for Innovation Program – STEAG
- Completed Messenger Chatbot using Chatfuel.
- AI Engineer - One Roadmap Skill Certification.

PROFESSIONAL DEVELOPMENT

30-Hour Python Developer Training Course (Ongoing)

Key Topics Covered: Python fundamentals, data structures, object-oriented programming (OOP), automation scripts, and web development basics.