Arirama Selvam M

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Portfolio — GitHub — LinkedIn

Professional Summary

Aspiring Python Developer and Computer Science Engineer with hands-on experience in Python application development, automation, data processing, OCR, web scraping, and AI-based applications. Skilled in Python, Streamlit, SQL, OpenCV, TensorFlow, Git, and Linux environments. Developed automation tools and web-based applications for document verification, inventory management, and medical image analysis. Strong problem-solving foundation with experience in building, testing, debugging, and deploying practical Python solutions.

Education

- **B.E. Computer Science and Engineering** 2022 – 2026
  Dr. G.U. Pope College of Engineering, Thoothukudi
- **Higher Secondary Course (HSC - Class 12)** **May 2022**
  John The Baptist Hr Sec School, Puthiamputhur **Percentage: 73%** (438 / 600)
- **Secondary School Leaving Certificate (SSLC - Class 10)** **March 2020**
  John The Baptist Hr Sec School, Puthiamputhur **Percentage: 75%** (375 / 500)

Technical Skills

- **Programming:** Python, SQL, JavaScript, Shell Scripting
- **Python Development:** OOP, File Handling, Exception Handling, Modules, Automation
- **Web Development:** Streamlit, HTML5, CSS3, JavaScript
- **Data Processing:** Pandas, NumPy, Data Cleaning, JSON, CSV
- **Computer Vision:** OpenCV, Tesseract OCR, Image Processing
- **AI/ML:** TensorFlow, Keras, CNN, U-Net, Deep Learning
- **Database:** MySQL, Firebase, SQL Queries
- **Web Scraping:** BeautifulSoup, HTML Parsing, Data Extraction
- **Tools:** Git, GitHub, VS Code, Jupyter, Google Colab
- **Systems:** Linux, Termux, Bash, APT, PKG
- **Cloud:** AWS, Cloud Computing Fundamentals
- **Networking:** TCP/IP, DNS, DHCP, Wireshark, CCNA

Projects

- **Linux & Termux Automation Toolkit** – Developed a Python-based CLI automation toolkit for Linux and Termux that automates system updates, package management, tool installation, environment detection, status checking, and activity/error logging. *Tech: Python, Linux, Shell, APT, PKG, JSON, Git GitHub: Code*
- **Document Verification System** – Developed a Python/Streamlit application that automates document verification using QR scanning, OCR, web scraping, and field-level data comparison. *Tech: Python, Streamlit, Tesseract OCR, OpenCV, BeautifulSoup GitHub: Code*
- **AI-Powered Polyp Detection & Analysis Portal** – Developed a deep-learning application using a two-stage pipeline for polyp classification and U-Net segmentation, with image preprocessing and visual analysis through a Streamlit interface. *Tech: Python, TensorFlow, Keras, OpenCV, Streamlit Live: View — GitHub: Code*
- **E-Commerce Inventory Management System** – Developed a web application for real-time inventory tracking, billing, and role-based administration with Firebase integration. *Tech: HTML5, CSS3, JavaScript, Firebase Live: View — GitHub: Code*

Certifications

- Python – EduPrep / Pantech
- SQL (Advanced) – HackerRank
- Problem Solving – HackerRank
- Networking Basics – Cisco
- Linux & Networking – TryHackMe
- Cybersecurity – Novitech / Corizo

Publications & Conferences

- **Conference Presentation:** "Automated Gastrointestinal Disease Detection Using Deep Learning with CNN and U-Net Architectures," presented at the *5th International Conference on Intelligent Computing and Communication Technology (ICCT'26)*, March 2026.

Achievements & Additional Information

- 1st Prize – Technical Quiz Competition
- Actively practice Linux, Networking, and Cybersecurity through hands-on labs on TryHackMe
- English – Fluent
- Tamil – Native