

PHILIP SIMON DEROCK P

Junior Software Developer With a Commitment to Continuous Learning

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Education

Karunya Institute of Technology and Sciences, Coimbatore

Sep 2021 – May 2025

B.Tech in Artificial Intelligence & Data Science

Coimbatore, TamilNadu

St. Antony's Higher Secondary School, Nagapattinam

June 2019 – May 2021

Higher Secondary School

Nagapattinam, TamilNadu

Don Bosco Matriculation Higher Secondary School, Thanjavur

June 2015 - May 2019

Secondary School

Thanjavur, TamilNadu

Skills & Technologies

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|------------|--------------------------|--------------------|---------------|
| - Java | - System Design (Basics) | - Linux Server Dev | - Sql (MySQL) |
| - Python | - Pandas & Numpy | - Ollama AI | - Excel |
| - Power BI | - Apache HTTP Server | - Jupyter Lab | - Yaml |

Experience

CISCO – Cybersecurity Internship

May 2023 – Aug 2023


- Completed training in Cybersecurity Essentials and Network Security Fundamentals
- Gained hands-on experience in securing networks and identifying vulnerabilities

EDUNET & AICTE– Artificial Intelligence and Data Analytics with a focus on Green Skills


Nov 2024 – Dec 2024

- worked on a project titled Healthcare Prediction on Diabetic Patients using Python
- Applied AI-driven feature engineering and statistical modeling to optimize predictive healthcare diagnostics

Projects

Portable AI Server with Ollama RAG Enhanced  / *Ubuntu Server, Python, Ollama AI, Streamlit, Yaml, MySQL, DB RAG* **(In Progress)**

- Developed a **portable AI server** using **Ollama AI, Database RAG** (Retrieval-Augmented Generation) with **MySQL**-backed chat history, **vector embeddings store**, and **similarity search**, enhancing context retention and AI response accuracy.
- Implemented self-hosting of AI models (**DeepSeek-r1, Llama2, Mistral**) for efficient on-premise AI inference and team collaboration
- Configured the server for complete wireless operation via Wi-Fi and mobile hotspots, eliminating the need for Ethernet
- Engineered a fully **self-hosted AI server**, integrating a **custom local domain (portable-ai-servx.com:8501)** for seamless multi device access
- Developed a custom AI Web UI using Streamlit, featuring a dark-themed interface, a sidebar for model selection, and a chat-based AI interaction system for seamless user experience with persistent **chat history** and **contextual retrieval** for a refined user experience

Portable Server  / *jdk21, Apache2, Ubuntu Server, Yaml, vsftpd*

March 2024

- This project explores repurposing an old Lenovo laptop to act as a Linux server with dual-boot functionality for portability and flexibility
- Deployed **JDK and JVM** on the server for developing and running Java applications
- Configured the server **for complete wireless operation** via Wi-Fi and mobile hotspots, eliminating the need for Ethernet.

Certifications & Courses

- From data to insights with Google Cloud Specialization (Google,Coursera)
- Data Science Training (Internshala)
- OOPs in Java Programming (simplilearn skillup)
- Data Visualization: Empowering Business with Effective Insights (Tata, Forge)
- CyberSecurity Essentials (Cisco)
- Data Visualization & Pandas (Kaggle)

Languages

- Tamil (Native)
- English (Proficient)