

# MUHAMMAD SEIF AL DIN BAICHOO

## CYBERSECURITY STUDENT

### CONTACT

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### SKILLS

#### Soft Skills:

- Problem-Solving
- Critical Thinking
- Team Collaboration
- Time Management
- Adaptability
- Customer Service

#### Technical Skills:

- Programming: Python, java, C, PHP, VUE.js, Laravel, Django
- Database Management: MySQL, MariaDB, PostgreSQL
- Web Development
- App Development
- Linux Server Administration
- Apache, Nginx, Caddy Server Configuration
- Knowledge of IoT
- GIT

#### Software and Tools:

- Wireshark
- Nmap
- Packet tracer
- Zabbix
- OWASP zap

#### Cybersecurity Skills:

- Web Application Security
- Vulnerability Assessment
- Risk Management
- Firewall Configuration
- Security Audits

### LANGUAGE

- English
- Mauritian Creol (Native)
- French

### LANGUAGE

- Web app development & design
- IoT projects & experimentation
- FPV drone flying
- Sports (football, badminton)

### PROFILE

Versatile IT trainee with practical experience across database administration, Linux system administration, technical support, and web application development. Experienced in supporting business systems, troubleshooting incidents, maintaining databases, and contributing to Laravel/Vue.js applications. Currently building a strong foundation in cybersecurity, infrastructure, and secure software practices through academic study and hands-on industry experience..

### WORK EXPERIENCE

#### System & Database Administrator (traineeship) - OceanDBA Ltd MAR 2026 - PRESENT

- Undertaken an Advanced Database Administrator Training Program.
- Assisted in managing and maintaining databases, including data organization, updates, and basic performance monitoring.
- Supported database backup, recovery, and troubleshooting tasks to help ensure data availability and reliability.
- Worked with technical teams to write queries, generate reports, and maintain data accuracy and integrity.

#### System Administrator (Internship) - OceanDBA Ltd JAN 2026 - MAR 2026

- Undertaken an Advanced System Administrator Training Program.
- Provided first-line technical support by monitoring systems, assisting Clients with technical issues, and helping resolve incidents on time.
- Created and tracked support tickets in Redmine, escalating issues to Level 2/3 teams when necessary and ensuring proper follow-up.
- Assisted with Linux system administration tasks, configuration, and collaboration with service and technical teams to improve support processes.

#### Full Stack Developer (Internship) - OceanDBA Ltd SEPT 2025 - DEC 2025

- Assisted in developing and maintaining web applications using Laravel and Vue.js.
- Supported REST API development, debugging, deployments, and automation to improve system performance and reliability.
- Collaborated with technical teams to troubleshoot issues, enhance features, and follow clean development practices.

#### Stock Manager, Pricing - Fast Click LTD MAY 2024 - JAN 2025

- Managed sales operations, processed payments, handled customer queries, and updated website pricing to keep product information accurate.
- Assisted with stock management by monitoring inventory levels, supporting timely reordering, and working with the team to optimize stock availability.

### EDUCATION

Cybersecurity Expert Master's Program 2025 - PRESENT  
SimpliLearn

Diploma in IT (Cybersecurity) 2023 - PRESENT  
Polytechnics Mauritius LTD

School Certificate 2022  
Computer Science A, French A, Mathematics B, Physics B, Chemistry C, English C

# PROJECTS

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## Linux website hosting and Database integration

Hosted and deployed secure PHP/MySQL apps on Ubuntu (Apache) with MySQL database, user access, HTTPS, input validation, security headers, IP tables, and Zabbix monitoring.

## Analogue-to-Digital Converter Website using Flask

Built a Python Flask app to simulate analogue-to-digital conversion with user input forms and backend logic.

## IoT-Based Smart Home with Biometric and RFID Security

Created a home automation system with fingerprint and RFID access control, enabling secure door entry, lighting, and appliance control via microcontrollers.

## IoT-Based Emergency Vehicle Priority System

Designed a traffic control system that uses GPS to detect emergency vehicles and automatically switch traffic lights in real time

## Smart Aquaponics Monitoring Mobile App

Created a monitoring mobile app using Flutter, MQTT, ESP32, and IOT sensors to monitor and automate the growth of lettuce

## (Final Year Project) Sentinel – Secure IoT-Based Public Transport System

- Designed and developed a secure multi-tenant platform for real-time bus tracking in Mauritius using Laravel, React.js, PostgreSQL, Docker, MQTT, ESP32 GPS devices, Caddy, and NGINX, with passenger and operator web interfaces.
- Implemented key security features, including MQTT over TLS, automatic TLS/certificate handling with Caddy and NGINX, UID-based device provisioning, RBAC, database isolation, audit logging, and zero-trust access controls to protect against spoofing, MITM, SQL injection, and unauthorised access.
- Built the system around a three-tier architecture with IoT devices, backend processing services, and web applications, while supporting multiple transport companies through isolated tenant databases and centralised platform management.