GREGORY PANAGARY

Phone (Mobile | Whatsapp): +248 2524490

Email: gregorypanagary@gmail.com

LinkedIn: Gregory Panagary | **https://www.linkedin.com/in/gregory-panagary**

Website/Portfolio: https://gregorypana.github.io/GregoryPana/

PROFESSIONAL SUMMARY

Computer Engineering graduate with hands-on experience in developing intelligent, full-stack solutions that integrate software, hardware, and AI. I am skilled in machine learning, computer vision, and data analytics, with a portfolio that includes smart agriculture systems, AI-based surveillance, and business intelligence dashboards. Adept at translating real-world problems into scalable, user-friendly technologies. Currently based in Seychelles and seeking opportunities to apply technical expertise and creative problem-solving in roles focused on software development, AI integration, or data-driven innovation. Committed to ethical, impactful, and sustainable tech solutions.

WORK EXPERIENCE

IT INTERNSHIP

Netmedias Leashares Sdn. Bhd.

March 2024 – July 2024

- Gained hands-on experience in IT and software development.
- Worked on system maintenance, troubleshooting, and software optimization.
- Assisted in web development and database management tasks.

JUNIOR DEVELOPER

Space95, Victoria, Seychelles

October 2020 – May 2021

- Developed a QR-based Covid-19 contact tracing system.
- Full-stack development of a mobile application using Flutter.

- Led the liaison with the Ministry of Health of Seychelles to ensure smooth enrollment and all requested deliverables.
- Provided user documentation using video and photo editing skills.

IT & MATH TEACHER

Belonie Secondary School, Seychelles

February 2020 – October 2020

- I worked in the IT and Mathematics department for teaching students.
- Prepared final-year students for IGCSE final examinations, increasing the passing rate by 20%.
- Advised on teaching methods for students across all levels of secondary within the IT and Mathematics fields.

EDUCATION

Bachelors in Computer Engineering with Honors
Asia Pacific University (APU), Kuala Lumpur, Malaysia
June 2021 – June 2025 (Expected Graduation Nov 2025)

A-Levels (Maths, IT, Physics, Chemistry)
Independent School, Victoria, Seychelles
Top 10 results nation-wide (Seychelles)
January 2018 – November 2019

LANGUAGES

- English (Native)
- French (Proficient)
- Creole (Native)

SOFT SKILLS

- Teamwork & Collaboration
- Problem Solving
- Project Management
- Willingness to Learn

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, Objective-C, Flutter (Dart), PHP, R, Visual Basic .NET

Software & Tools: LabVIEW, MATLAB, OpenCV, Figma, GitHub

Hardware & Embedded Systems: Arduino/Microcontrollers, Embedded Systems, VLSI, Digital Circuit Design, Digital Signal Processing

AI & Machine Learning: AI/Machine Learning, Machine Vision

Databases & Cloud: Firebase, Big Data Analytics, System Administration, AWS

Web Development: HTML5, CSS, JavaScript, UI/UX

PROJECTS

ADAPTIVE SUSPICIOUS ACTIVITY AI SECURITY SYSTEM

October 2024 – May 2025

- Developed an AI security system capable of detecting suspicious activity while maintaining privacy.
- Implemented a hybrid Convolutional Neural Network (CNN) and Long-Short Term Memory (LSTM) model.
- System adapts threat levels dynamically and notifies relevant personnel upon detection.

Skills: Machine Learning, Database, Object-Oriented Programming (OOP), Big Data Analytics, Machine Vision, Python, Artificial Intelligence (AI), Project Management, Firebase, HTML5, CSS

BIG DATA ANALYSIS

February 2025 – May 2025

- Developed an AI security system capable of detecting suspicious activity while maintaining privacy.
- Implemented a hybrid Convolutional Neural Network (CNN) and Long-Short Term Memory (LSTM) model.
- System adapts threat levels dynamically and notifies relevant personnel upon detection.

Skills: Machine Learning, Database, Object-Oriented Programming (OOP), Big Data Analytics, Machine Vision, Python, Artificial Intelligence (AI), Project Management, Firebase, HTML5, CSS

SMART CAGE-FREE CHICKEN COOP

September 2024 – December 2024

- Designed a sensor-integrated system to monitor cage-free poultry farm conditions.
- Developed a web dashboard to visualize real-time farm data stored in Firebase Realtime Database.
- Focused on data uploading to the cloud and dashboard development.

Skills: JavaScript, Embedded Systems, Database, Big Data Analytics, System Administration, Firebase, Data Analysis, Python, AI, Project Management, HTML5, CSS

WEB APPLICATION DESIGN ENHANCEMENT

December 2022 – February 2023

- Selected an existing website and redesigned it from the ground up with a focus on UI/UX principles and Human-Computer Interaction (HCI) best practices.
- Conducted usability analysis on the existing website to identify pain points.
- Created wireframes and prototypes to plan an improved user interface.
- Implemented responsive design, accessibility improvements, and interactive elements (e.g., animations, micro interactions).
- Ensured consistent branding with modern visual design choices.
- Conducted user testing and feedback analysis to refine the final design.

Skills: Figma, UI/UX, Web Design, Web Content Writing

VISION-BASED IC DEFECT INSPECTION

November 2023 – January 2024

- Developed a Python program using OpenCV to detect IC defects such as missing/bent legs and surface scratches.
- Implemented an AI-based IC inspection method and integrated both approaches into a GUI.

Skills: Machine Learning, UI/UX, Machine Vision, OpenCV, Python, AI

SMART MOVIE THEATRE

October 2023 – December 2023

- Designed an automated movie theatre control system using a microcontroller.
- Applied fundamentals of microcontrollers and microprocessors to build a working prototype.

Skills: Arduino, Embedded Systems, C Programming

CAFETERIA ORDERING SYSTEM (JAVA)

August 2022 – September 2022

- Built a desktop cafeteria ordering system with customer and manager functionalities.
- Implemented Object-Oriented Development practices in Java.
- Stored all system data using text files.

Skills: Java, UI/UX, Object-Oriented Programming (OOP)