MEMEL ANGE PATRICK THEOPHANE AGNIMEL

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Kelowna, British Columbia, Canada

EDUCATION AND HONORS

University of British Columbia *Irving K. Barber Faculty of Science* Kelowna, Canada **2022-2026**

BSc Computer Science, *Co-op Program*

- **3rd year**, **GPA**: 4.0 / 4.0
- **Relevant Coursework**: Machine Architecture, Introductory Physics for the Physical Sciences I & II, Computer Programming I & II (Java), Introductory Statistics, Discrete Structures
- **Honors**: Recipient of the Ivorian government's scholarship (75% tuition coverage)

University of Wolverhampton *School of Engineering* Wolverhampton, U.K. **2019-2021**

BEng (Hons) Chemical Engineering

- **GPA**: 4.0 / First-Class
- **Relevant Courses**: Mathematical Modelling, Engineering Mathematics, Control Engineering, Environmental Engineering, Safety and Engineering Practice, Design Project
- **Honors**: Ivorian government's full scholarship (Awarded to top baccalaureate students)

SKILLS AND INTERESTS

- **Skills**: Python | R | SQL | Java | C/C++ | MIPS Assembly Language | RISC Architecture | MATLAB & Simulink | HTML | CSS | JavaScript | React | OOP | Advanced Excel proficiency | Laboratory skills | AutoCAD | Git | GitHub | French (native) | English (Fluent)
- **Interests**: Economics, A.I./Robotics, Cybersecurity, Electronics

PROFESSIONAL EXPERIENCE

Industrial Computing & Automation Intern *SIR (Ivorian Refining Company)* Abidjan, Côte d'Ivoire **2022**

- Conducted hands-on maintenance and evaluations of essential equipment and instrumentation.
- Engaged extensively with Industrial Control System Architecture and Distributed Control System (DCS), gaining practical understanding in industrial automation and control.
- Implemented unsupervised machine learning techniques using Python for a web-based sentiment analysis on oil prices, aiding in economic planning and refinery operations scheduling.
- Collaborated within a team to strategize and research the feasibility, benefits, and strategies for AI integration in the refinery's overall operations.

PROJECTS AND LEADERSHIP

BCHacks 5.0 - Hackathon University of British Columbia Kelowna, Canada **January 2024**

- Collaborated with two group members on CosmoCuisine, integrating ChatGPT API for AI-driven recipe suggestion/generation and visual ingredient recognition using camera input.
- Utilized React for the frontend and Node.js/Express for the backend, with PostgreSQL and Prisma ORM for efficient pantry database management.

Personal Portfolio Website Personal Project **2023**

- Developed a portfolio website using GitHub Pages, HTML, JavaScript, CSS, and Google Analytics to showcase my journey, insights from books, travel experiences in Japan, and professional experiences.

Image Filter and Edge Detection Personal Project Kelowna, Canada **2022**

- Developed a C program to apply filters on BMP images, additionally leveraging the Sobel operator for edge detection in computer vision.

Chemical Engineering Capstone Project *University of Wolverhampton* Wolverhampton, U.K. **2020-2021**

- Led a team of four in designing a large-scale antibiotic manufacturing plant, employing mathematical modeling in MATLAB and Excel, and creating detailed system designs using AutoCAD. The model-driven approach contributed to potential operational cost savings and increased production efficiency.
- Produced a detailed report and gave a technical presentation on the results to industry experts and a panel of academics (70%)

Machine Learning Project - Chemometrics *University of Wolverhampton* Wolverhampton, U.K. **2020-2021**

- Collaborated with two group members to develop an Artificial Neural Network model using MATLAB (Deep learning toolbox) to predict the physio-chemical properties of Ionics liquids with potential uses for carbon capture.