PATRICK AGNIMEL

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Kelowna, British Columbia, Canada

PROFILE

HIGHLY motivated and adaptable Computer Science student at UBC. Actively seeking placements lasting 4, 8, 12 or 16 months, starting in May 2024.

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, Matrix Algebra, Data Structures & Algorithms, Discrete Structures, Statistics, Physics
- **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 | RISC Architecture | MATLAB & Simulink | HTML | CSS | JavaScript | OOP | Advanced Excel proficiency | Experimental Physics | Circuit Analysis | 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 of 1000 news articles on oil prices, aiming to aid in economic planning and refinery operations scheduling. [[here](#)]
- Collaborated within a team of six 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 | **2024** |

- Collaborated with two group members on CosmoCuisine, integrated ChatGPT API for AI-driven recipe suggestion/generation and visual ingredient recognition using camera input. [[here](#)]
- 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 skills, professional experiences, and interests. [[here](#)]

| **Image Filter and Edge Detection** | Personal Project | | **2022** |

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

| **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 30% increased production efficiency and potentially significant operational cost savings.
- 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. [[here](#)]