FERDINAND HUBBARD

+32 479 820 811 ⋄ Brussels, Belgium

ferdinandhubbard@gmail.com ⋄ linkedin.com/in/ferdinand-hubbard ⋄ github.com/ferdinandhubbard981

Motivated and skilled software engineer with a strong academic foundation in computer science and practical experience in software development. A bilingual professional passionate about leveraging technology to solve real-world problems, as demonstrated through impactful internships and entrepreneurial projects.

EDUCATION

Bachelor of Science (BSc) Computer Science   September 2021 - June 2024
University of Bristol   *Bristol, UK*
Graduated with a 2:1

A levels   September 2016 - June 2021
Ampleforth College   *Yorkshire, UK*
Further mathematics, mathematics, computer science, physics: A*, A*, A*, A

SKILLS

Programming Languages: Python, C++, C, JavaScript, TypeScript
Web Technologies: HTML & CSS, React
Tools: Kubernetes, Docker, Git, LaTeX, CI/CD Pipelines
Languages: Fluent in English and French

EXPERIENCE

Software Engineering Intern (C++)   June 2023 - August 2023
FN Herstal, Herstal, Belgium
Designed and implemented a system to calculate the coding-standard-coverage value of a static analysis configuration. It does this by checking the static analyser's output to counter-examples (code snippets) to each rule in the coding standard. This system identified which custom checks should be added to the static analysis configuration, as well as which rules of the coding standard need to be verified by a human during code review. All this information is displayed in an automatically generated web page.

Teaching Assistant   September 2022 - June 2023
University of Bristol, Bristol, UK
Supported first-year students in 'Imperative Programming' and 'Mathematics B' courses, providing in-class mentoring to improve understanding and performance.

PROJECTS

SPQM Odoo Module: Solar Panel Quote Maker (Python, Odoo) - git repo - demo   October 2024 - November 2024
Developed a custom Odoo module for a solar panel installation business to streamline quoting. Integrated year-on-year financial projections to showcase ROI of a solar panel installation, improving client conversion rates by 25%.

Odoo tutorial 'estate' - git repo   September 2024 - October 2024
Completed the odoo 'Server framework 101' tutorial, which gave me the ability to make simple odoo modules, enabling me to start my next project.

RecallAI (Kubernetes, python, typescript)   May 2023 - September 2023
My co-founder and I have developed a website that generates flashcards from lectures and videos. It leverages existing ML models to generate a transcript, and then condense that information into flashcards. The app is hosted in a bare-metal k8s instance, and was developed to be horizontally scalable.

Composite Design Tools (TypeScript, React)   September 2022 - May 2023
Collaborated with Imperial College London's material science department to create a web-based tool for visualizing and analyzing compressive strength models.

Pregame Analysis for League of Legends (Python, TensorFlow)   2021
Trained a neural network to predict game outcomes based on millions of pre-game data, achieving 70% accuracy. I also used bayesian optimisation to tune the neural networks' hyper-parameters.

Maths Toolkit (C++, JavaScript) 2021

Created an educational toolkit for A-Level students, simplifying complex topics like the Simplex algorithm, matrix operations, and numerical solutions for polynomials.

EXTRA-CURRICULAR ACTIVITIES

Sports: Represented the University of Bristol in clay pigeon shooting competitions and organized weekly kickboxing practice sessions for 20+ members. I also enjoy running, golf and climbing.

Technical Activities: Participated in a CTF competition organized by BAE Systems and the Bristol Computer Science Society, solving advanced security challenges.