Eoin Curtis

FULL STACK DEVELOPER · DATA FIRST

Dublin, Ireland

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"If you're going to try, go all the way. Otherwise, don't even start." - Charles Bukowski

Summary

Full-stack developer with hands-on experience building web applications using Python, Flask, React, and JavaScript. Skilled in API integration, frontend design, and backend development. Proven ability to deliver efficient, user-focused solutions in collaborative environments.

Work Experience

Searsol   *Dublin, Ireland*
PROGRAMMING TUTOR   *Jun. 2025 - Present*

- Deliver group tutoring sessions in Python, HTML, CSS, and introductory computing concepts.
- Design engaging lessons focused on developing problem-solving, coding logic, and foundational programming skills for students of varying levels.
- Provide hands-on guidance in both front-end and back-end development principles, preparing students for further study or real-world applications.

UCD Festival Volunteer Project   *Dublin, Ireland*
SOFTWARE DEVELOPER (STUDENT-LED PROJECT)   *May. 2025*

- Built a full-stack CSO Report Generator using Flask backend, integrating CSO API and OpenAI API to automate data analysis and report generation.
- Developed and deployed a mobile-friendly web application, hosted online and designed to handle live user traffic (10 concurrent users).
- Managed end-to-end development including API integration, server deployment, and user interface design.

Education

UCD (University College Dublin   *Dublin, Ireland*
B.SC IN COMPUTATIONAL SOCIAL SCIENCE   *2023 - 2027*

- Computer Science with Minors in Mathematics, Statistics, Economics, and Sociology

Projects

LARGE LANGUAGE MODEL REPORT GENERATOR   DATA4GOOD HACKATHON — JANUARY 2025

- Developed a full-stack web app to analyze and generate reports from large demographic datasets (Wegweiser Kommune).
- Built Python Flask backend integrating OpenAI GPT API for automated natural language summaries based on user input.
- Created dynamic frontend using HTML, CSS, and JavaScript for real-time data selection and report generation.
- Awarded **Runner-Up for Technical Excellence** in a Europe-wide competition.
- Selected by UCD faculty for further development with Irish data; showcased at **UCD Festival 2025**.

AUTONOMOUS BALL COLLECTING ROBOTICS PROJECT (LEAD DEVELOPER)   UCD — SPRING 2025

- Led development of C++ software for an Arduino-powered autonomous robot competing in UCD RoboRugby, reaching quarter finals.
- Used bit-mapping to exploit a rules loophole, enabling three configurable robot modes for enhanced versatility.
- Developed sensor integration and real-time navigation using PID control algorithms.
- Managed full software lifecycle, including testing, optimization, and debugging under hardware constraints.

Skills

Languages	Python, HTML, CSS, JavaScript
Frameworks & Libraries	React, Flask, Scikit-learn, Pandas, NumPy
Tools	Git, Linux, VS Code