

Julius Jogela

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EDUCATION

Trinity College Dublin

Dublin, Ireland

Bachelor's Degree in Computer Science (First Class Honours (1.1) – Grade Average: 82%)

Expected Graduation: May 2027

- Relevant Modules: **Algorithms and Data Structures I (1.1)**, Systems Programming in C (1.1), **Python Programming II (1.1)**, Computer Architecture (1.1), Information Management I (1.1), **Discrete Mathematics (1.1)**, Statistical Analysis (1.1)
- **Trinity Entrance Exhibition Award** – awarded for exceptional academic performance upon entry.

Colaiste Einde

Galway, Ireland

Leaving Certificate (613/625)

Sept. 2021 - June 2023

- **National Mathematics Competition** – 1st place in Regional Finals; 5th nationally out of 15,000+ students.

EXPERIENCE

Quantexa

Dublin, Ireland

Student Software Engineer

Jan. 2025 – June 2025

- Designed and developed a simulation platform where AI agents engaged in role-based conversations, allowing users to test negotiation strategies and analyze outcomes leading to a estimated **40% improvement in identifying optimal negotiation paths**.
- Automated simulation setup by developing an **AI-powered pipeline** that converts natural language prompts into structured JSON instructions, **reducing manual configuration time by 90%**
- Collaborated with a team of 8 interns to design and implement the full-stack system using **React** for the frontend, **Python/Flask** for the backend, and **Ollama** (LLama 3) for orchestrating locally hosted LLM-powered agents.

Trinity College Dublin

Dublin, Ireland

Lab Assistant

Sept. 2024 – May 2025

- Assisted undergraduate students during computer science lab sessions, clarifying programming concepts and debugging code.
- Provided one-on-one support in C, Python, and Java labs, reinforcing lecture material and improving student engagement.
- Collaborated with teaching staff to prepare lab content and ensure smooth delivery across multiple practical sessions weekly.

PROJECTS

CanCollect — React Native, TypeScript, Python, Firebase, Stripe, SQLite

Feb. 2025 – Present

- Built **CanCollect**, a full-stack mobile app using **React Native** and **TypeScript** for the frontend, and **Python** for backend logic, enabling users to schedule bottle pickups from home and earn money via Ireland's Re-Turn Deposit Scheme.
- Used **Firebase** for real-time data syncing, secure user authentication, and integrated **Stripe** to automate payout processing.
- Finalised MVP and infrastructure; currently building a wait-list and gearing up for the first public launch in Dublin this year.

ProfitBot — Python, Selenium, SQLite, Telegram API

Dec. 2024 – Present

- Created a web scraping bot using **Python** and **Selenium** to monitor second-hand marketplaces for underpriced, high-resale items and send real-time alerts via Telegram.
- Implemented intelligent filtering based on price thresholds, keywords, and seller history, with duplicate detection powered by a local **SQLite** database to avoid repeat alerts and reduce manual sourcing effort by **90%**.
- Used leads from the bot to manually flip products, generating over **€5,000 in verified profit** to date.

Flight Data Analyser — JavaScript, HTML/CSS, SQL

Dec. 2023 – Jan. 2024

- Collaborated in a team of 5 to build an interactive tool for visualizing flight data from datasets containing up to 560,000 US flights.
- Designed an interactive world map with **JavaScript**, **HTML/CSS** to visualize and search filtered flight paths.
- Added an interactive line graph powered by **SQL** to analyse daily flight frequencies across 370 airports.

LEADERSHIP

Trinity Access Program (TAP) Ambassador

Trinity College, 2023

- Engaged with over **300 students** from disadvantaged backgrounds by promoting higher education and STEM careers through mentoring, school visits, and interactive campus tours.
- Provided insights into university life and academic pathways, fostering early enthusiasm for education among primary and secondary school students.

IMTA National Maths Final – Team Leader

Maynooth University, 2023

- Led a team of 4 top-performing students to represent Colaiste Einde in the Irish Mathematics Teachers Association (IMTA) National Final, competing against over 200 schools nationwide.
- Coordinated group practice sessions under timed conditions, leading the team to a regional win and top-5 national placement.

TECHNICAL SKILLS

Programming: Python, TypeScript, JavaScript, Java, C, SQL

AI/ML: Prompt Engineering, LLMs, NumPy, Pandas

Web: React, Flask, FastAPI, Firebase, Bootstrap

Tools: Git, Docker, Linux, Selenium, Stripe API, SQLite, MySQL