

Tom Huth

Final Year Student: BSc Computing Science (Faster Route) University of Glasgow, UK

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Motivated and detail orientated student with experience building full-stack applications through personal and academic projects, hackathons and coursework with a passion for writing clean, efficient code that solves real world problems. Experienced in developing platforms end-to-end, including an Uber-style platform connecting consumers and trade.

Skills: Python | JavaScript | Node | React | Java | Django | ROS2 | PostgreSQL | MySQL | Git | Spring Typescript | HTML | REST APIs | Docker | MongoDB | Angular | Express

Education:

University Of Glasgow

Student: September 2023 – 2026

Third year of Computing Science BSC Faster route – Expected 2.1

Modules – Object Oriented Software Engineering, Algorithmics, Data Fundamentals, Human Centred Systems Design and Evaluation, Web Application Development, Networks and Operating Systems, Robotics Foundations, Cyber Security Fundamentals, Artificial Intelligence, Machine Learning, Mobile HCI

Projects –

Full-Stack Developer/Founder | Etradie | github.com/TomHuth9/ETradie

- Full-stack marketplace connecting homeowners with local tradespeople, built with React (Vite), Node.js, Express, PostgreSQL, Prisma, Socket.IO, and JWT
- Role-based accounts for homeowners (post jobs) and tradespeople (accept/decline, messaging), with dashboards for each role and public profiles with ratings and reviews.
- Real-time job broadcast to nearby tradespeople (distance-based), per-job messaging, reviews after completion, and in-app notifications for key events, with automated tests (Jest/Supertest + Vitest).
- Secured with JWT auth, Zod validation, rate limiting, and structured API routes; deployable as separate frontend and API services (e.g. Render).

Full-Stack Developer/Founder | The Farm Gate | github.com/TomHuth9/TheFarmGate

- Full-stack farm-to-door delivery platform built with the MEAN stack (MongoDB, Express, Angular 17, Node.js), with a REST API backend and responsive Angular Material UI.
- Role-based accounts for customers and farm producers, with a dedicated farm dashboard for managing product listings including prices, descriptions, and images.
- Features product browsing by category or farm, basket management, order placement with postcode-based delivery centre assignment, and comprehensive testing.
- Secured with JWT authentication, input validation, rate limiting, and server-side price verification.

Dissertation: Counting Beyond the Training Range: Evaluating CNN Generalisation on Visual Object

Counting (University of Glasgow, 2026) | github.com/TomHuth9/Counting-Beyond-the-Training-Range-Evaluating-CNN-Generalisation-on-Visual-Object-Counting

- Designed a controlled experimental framework to evaluate CNN generalisation on visual object counting beyond training distribution, training/evaluating 7 architectures across 40+ model runs.
- Built a synthetic dataset of 21,000 labelled images and implemented a full PyTorch training pipeline with custom evaluation metrics and experiment tracking.
- Developed a U-Net density map model that outperformed a pretrained ResNet-18 on extrapolation despite training from scratch.
- Conducted ablation studies on grid size, loss function, and training count distribution across regression, classification, density map, and grid-based counting approaches.

School: Our Lady and St Patrick's College

Student: September 2016 – August 2023

A-Levels:

Computer Science: Grade A

Geography: Grade A

Mathematics: Grade A

Business Studies(AS-Level): Grade B

Work History:

October 2024 – Present

Reach Out IT Student Ambassador (IT helpdesk)

Main duties include upgrading university pc software, assisting customers with IT issues, maintaining university systems, troubleshooting.

June 2024 – August 2024, June 2025 – August 2025:

Senior General Counsellor at a summer camp in Canada (through Camp Canada)

Managed a unit of staff and campers, responsible for conflict resolution, project planning, and mentorship of junior counsellors.

September 2021 – September 2023:

Maintenance Person

General workshop duties, programming automated control systems, working outdoors and serving customers.

Other:

Lifeguard, NHS Administrator

Work Experience:

Kainos virtual work experience placement:

Teambuilding and communication activities, technical skills e.g. web development (Visual Studios), cybersecurity (hacking OWASP juiceshop using postman).

Qualifications and other Interests:

Volunteer Senior Youth Leader with Koinonia Ireland

I began as a youth in the organisation, and then transitioned to a team member in January 2020, and progressed to a senior team leader by September 2021, and was in that position until leaving for University in September 2023. Coordinated large-scale logistics and team management for international events, ensuring operational safety and stakeholder satisfaction.

TBUC Ambassador Mentor

I was a TBUC Ambassador from April 2021 to August 2022, and an Ambassador Mentor August 2022 – September 2023

Main duties included organising and hosting community-building events for up to 500 people, managing my team to get things prepared, and mentoring new ambassadors.

OCN Level 2 award in Uniting Communities through Leadership (with TBUC Ambassadors)

Member of Dufferin Cadets – St John's Ambulance

Duke of Edinburgh Silver Award with St John's Ambulance