

Tom Huth

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

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Motivated and detail oriented 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 | Unix | Linux

Education:

University Of Glasgow

Student: September 2023 – 2026

Computing Science BSC Faster route with Data Science Strand – Achieved 2.1

Modules – Object Oriented Software Engineering, Data Fundamentals, Human Centred Systems Design and Evaluation, Web Application Development, Robotics Foundations, Artificial Intelligence, Machine Learning, Mobile HCI, Programming Languages

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; deployed on 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

- Achieved grade A3(1st)
- 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

Mathematics: Grade A

Geography: 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