JED CASEY

Computer Science Graduate | BSc (Hons) Computer Science with Web Development, First Class Honours
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PROFILE

First Class Computer Science graduate who pairs hands-on full-stack and Microsoft Azure experience with two and a half years in fast-paced, customer-facing roles. Led a six-person team as Project Manager on an AI-integrated charity platform, renegotiating scope with the project supervisor when the team shrank, and designed and secured three end-to-end platforms across React, Node.js, Python and Azure. At my best working out what someone actually needs, presenting and demoing technical work to technical and non-technical audiences alike, and staying composed under pressure. Studied in Sweden, worked in the United States, and open to relocating for the right role.

KEY STRENGTHS

Discovery and scoping: turned a live charity brief into epics, user stories and a MoSCoW roadmap, then used story mapping to renegotiate scope with the supervisor when the team dropped from six to two.

Demos and presentations: presented and defended every major project, pitched to the audience: a jargon-free video demo of Volunteasy for non-technical viewers, a technical walkthrough of the Azure deployment for supervisors, and a viva defending MedIQ's implementation and research.

Solution design with cost in mind: designed a hybrid Azure architecture, right-sized it from monitoring data, and scored full marks for security, cost and sustainability.

Security and trust: build in the controls enterprise buyers ask about, including role-based access, audit logging, credential-free cloud authentication and pre-release security review.

Composure with customers: two and a half years in high-volume hospitality, handling enquiries, reservations and match-day crowds without losing accuracy or patience.

PROJECTS

Volunteasy — AI-assisted Volunteer Management Platform · Group project, 2025
Project Manager and Lead Developer · React, Node.js/Express, PostgreSQL, OpenAI API, Jest

- Led a six-person team building a platform for a volunteer-run partner charity that was struggling to retain unpaid volunteers and depended on a few people for undocumented staff and operational knowledge; ran weekly sprints and owned the agile process: epics, user stories, an eight-epic Notion backlog and a MoSCoW roadmap.
- When the team reduced from six to two, used the user story map to renegotiate scope with the supervisor, then built the entire frontend, REST API and PostgreSQL database to deliver it.
- Integrated the OpenAI GPT API to assess volunteers' survey answers against role criteria, returning scores with transparent reasoning so charity admins could understand and challenge the AI's judgements rather than trust a black box.
- Presented the finished platform in a recorded video demo aimed at a non-technical audience, walking through each feature and the reasoning behind it in plain language rather than technical terminology.
- Ran a cybersecurity risk assessment at the planning stage and built in three-tier role-based access, hashed passwords and input sanitisation, verified by 135+ automated tests including injection attempts.

MedIQ — Continuous Care Health Monitoring Platform · Dissertation project, 2025–2026
Individual project · React 19, Node.js/Express, PostgreSQL, Python/FastAPI, scikit-learn · github.com/Jegrid/mediq

- Designed a platform for monitoring patients' symptoms between GP appointments, with separate patient, clinician and supervisor portals and ML-assisted predictions (Random Forest, 4,920 cases, 41 conditions) that clinicians review and can override.
- Built it around the questions a healthcare buyer would ask: the ML service holds no patient data, all access is authenticated and role-checked, every action is audit-logged, and supervisor-set red-flag rules act as a safety net independent of the model.
- Ran user testing with a 94.9% task completion rate and a System Usability Scale score of 85.5, well above the industry average of 68.
- Carried out a security review of the API before release, closed an access-control gap it identified, and documented residual risks openly in the report.

- Defended the platform's implementation and underlying research in a viva, justifying design, security and machine learning decisions under questioning.

Azure Cloud Deployment — Construction Site Dashboard · Cloud Computing module, 2026

Individual project · 90% · Microsoft Azure, Bicep, Azure SQL, Key Vault, PHP 8.3, Linux

- Designed and deployed a hybrid IaaS/PaaS solution on Azure that combines live weather and air-quality data with project records to drive site-safety and operations recommendations.
- Removed stored credentials entirely using a managed identity and least-privilege access, with all third-party API keys kept server-side.
- Traced a recurring outage to memory exhaustion using Azure monitoring, right-sized the VM to balance cost and reliability, and added resilience for serverless database cold starts; the report scored full marks for security, cost and sustainability.
- Codified the environment as modular Bicep templates with dev and prod configurations, so it can be redeployed consistently.
- Presented and demonstrated the live deployment to supervisors, walking through the architecture and the reasoning behind each design decision.

CUSTOMER-FACING EXPERIENCE

Bar Staff — Mambo's Express, South Shields Jun 2025 – Dec 2025

- First point of contact for customers in a busy venue, handling reservations and face-to-face and phone enquiries while keeping till and stock accurate and covering floor service at short notice.

Bar Staff — St James' Park, Newcastle upon Tyne Sep 2023 – Aug 2024

- Served high volumes of customers on match days and at large events, staying fast, accurate and composed under sustained pressure while following health and safety, safeguarding and data protection policies.

Camp Counsellor — Camp Nock-A-Mixon, Pennsylvania, USA Jun 2023 – Aug 2023

- Took responsibility for a group of 13 children in a new country and team, making quick judgement calls on safety and wellbeing; earned the American Red Cross Lifesaving Certificate (first aid and CPR).

Front of House — 31 The Quay Restaurant, North Shields Sep 2022 – May 2023

- Promoted from kitchen porter to front of house within months; looked after multiple tables through peak services and was regularly praised for attention to detail.

EDUCATION

Northumbria University — BSc (Hons) Computer Science with Web Development 2022 – 2026

First Class Honours

- Studied the Artificial Intelligence pathway for the first two years before moving to Web Development.
- Relevant modules: Cloud Computing (90%), Computer Networks, Security and Operating Systems (86%), Human-Computer Interaction (76%), Software Engineering Practice (72%), Data Security and Governance (70%).

Jönköping University, Sweden — International Exchange Year 2024 – 2025

Advanced Web Development: Grade 5 (highest) in the project component

Gateshead College — BTEC Level 3 Extended Diploma in Software Engineering 2020 – 2022

Distinction, Distinction*, Distinction*

St Wilfrid's RC Academy — GCSEs 2015 – 2020

Nine GCSEs including English, Mathematics and Science

TECHNICAL SKILLS

Cloud & Infrastructure: Microsoft Azure (VMs, Azure SQL, Key Vault, Managed Identities, RBAC, Azure Monitor, Cost Management), Bicep, Linux

Development: JavaScript, React, Node.js/Express, Python/FastAPI, PHP, SQL/PostgreSQL, REST API design

AI & Data: OpenAI API integration, scikit-learn, pandas, Power BI

Security: JWT authentication, role-based access control, secrets management, security review

Delivery: agile/Scrum, requirements gathering, user stories, MoSCoW prioritisation, user testing, Git/GitHub, Jest, Notion, Figma

Certifications: Networking Basics and Introduction to Modern AI, Cisco Networking Academy (2026)