

Joanna Chen

BSc Computer Science Graduate

CONTACT

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SUMMARY

Computer Science graduate (BSc, 2:1) from the University of Leeds with a strong foundation in secure computing, cryptography, networking, and distributed systems. Brings eight years of professional experience across healthcare and hospitality environments requiring confidentiality, regulatory awareness, and accurate handling of sensitive information. Proven communicator and team coordinator with experience working under pressure, and supporting clients with professionalism and empathy.

TECHNICAL PROJECTS

Glaucoma diagnosis using deep learning and explainable AI

- Independently managed a dataset of ~10,000 medical images while designing and training deep learning models for glaucoma diagnosis.
- Produced structured technical documentation throughout development to support traceability, maintainability, and clear communication of design decisions.
- Demonstrated end-to-end project ownership through research, implementation, and evaluation of explainable AI techniques.
- Achieved 74% for this dissertation project.
- Skills utilised:** Python, PyTorch, OpenCV, Technical Documentation, Project Management

Smart Pantry API - Personalised recipe recommender API

- Designed and built a RESTful API using Python and FastAPI with a modular router architecture.
- Implemented JWT-based authentication with password hashing (Bcrypt) for secure API access control, using Python and FastAPI.
- Structured the API with Swagger/ReDoc documentation for clear technical communication.
- Maintained a public GitHub repository with commit history demonstrating iterative development.
- Skills utilised:** Python, FastAPI, JWT Authentication, Bcrypt, Google Cloud Vision API, Error Handling & HTTP Status Codes, API Documentation (Swagger / ReDoc).

Auction Website (Group Project)

Key contributions include:

- Collaborated in a team using Agile methodology, contributing through GitHub with pull requests, code reviews, and iterative commits throughout the development cycle.
- Developed a full-stack web application integrating Stripe for secure payment handling and real-time Socket.io notifications.
- Wrote a custom Python testing script to validate API endpoints and application logic prior to deployment.
- Skills utilised:** JavaScript, React, Socket.io, Bootstrap, CSS Modules, Flask, Agile Development, Python testing, and GitHub.

PROFESSIONAL EXPERIENCE

Waitress / Team Coordinator (Hong Kong Restaurant 2018 - 2026)

- Coordinated a team of four during high-volume service periods, prioritising tasks in real time while maintaining composure, accountability, and supportive teamwork under pressure.
- Handled customer contact and delivery information confidentially, ensuring sensitive data remained secure and inaccessible to unauthorised individuals.
- Managed end-of-day cash reconciliation and financial records accurately, demonstrating honesty, integrity, and trustworthiness when handling sensitive financial information.
- Performed bookkeeping and profit/loss calculations using Microsoft Excel, supporting reliable financial oversight for the business.
- Liaised with third-party delivery partners to coordinate accurate and timely fulfilment, demonstrating collaborative working and dependable communication across external relationships.
- Delivered responsive customer service in a fast-paced environment, resolving issues professionally while maintaining a respectful and approachable manner.

PROFESSIONAL EXPERIENCE (CONTINUED)	Optical Assistant / Receptionist (Pirrie Optometrists 2021-2026 Seasonal) - Suggested and deployed electronic patient recalls, saving the practice approximately 90% in correspondence costs annually. - Applied need-to-know access principles when handling patient records on the Optinet clinical management system, demonstrating responsible data stewardship within a regulated healthcare environment. - Maintained physical data security by ensuring all patient documentation was kept face-down and out of sight of other patients, and oversaw secure disposal of documents containing personal information - demonstrating practical information governance in day-to-day work. - Facilitated electronic patient consent through GOS1 forms on Optinet, maintaining accurate and auditable records while treating patient privacy with professionalism and respect. - Conducted diagnostic screening procedures (visual fields, OCT, and fundus imaging) requiring strict adherence to clinical protocols and precision data recording - building an appreciation for process compliance and the consequences of errors in regulated environments. - Served as the primary point of contact for patients, clinicians, and suppliers, handling sensitive queries with professionalism, empathy, and clarity - building trust across diverse stakeholders on a daily basis. - Managed prescription lens dispensing and inventory, ensuring accuracy through careful data verification and maintaining confidentiality of patient prescription details. - Worked collaboratively within a fast-paced clinical environment where responsiveness, reliability, and respectful communication were essential to patient care.
EDUCATION	University of Leeds 2023-2026 BSc Computer Science, 2:1 (Hons) Relevant modules: Secure Computing · Cryptography · Networks · Distributed Systems · Computer Architecture. Bourne Grammar School 2020-2022 A-Levels: - Mathematics (A) - Biology (A) - Chemistry (A)
PROFESSIONAL DEVELOPMENT	FutureLearn / King's College London - Introduction to Business Management - Explored core business management concepts including managing money, people, information, and personal effectiveness. Reflected on leadership style while examining themes of success, sustainability and social responsibility. Microsoft Azure AI Fundamentals - AI-900 - Developed foundational knowledge of AI and machine learning concepts, including Azure AI services, responsible AI principles, and the practical application of AI workloads in cloud environments. ISC2 - Certified in Cybersecurity (CC) - Built internationally recognised foundational cybersecurity knowledge spanning security principles, network security, access controls, incident response, and governance.
OTHER TECHNICAL SKILLS	Programming: - C, C++, Java, Python, JavaScript, React, SQL, HTML, CSS, Bootstrap Data & Analysis: - SQL, Excel, Python (decision trees, data processing, queries, visualisation) Tools & Frameworks: - Git, Qt, Flask, SQLite Core Competencies: - Database Design, Secure Computing, Object-Oriented Programming, Web Development, Agile Collaboration
INTERESTS & ACTIVITIES	Outside of my studies and professional work, I enjoy exploring new languages and cultures and am currently learning Japanese, Korean, and Nepalese. I also enjoy music as a way to unwind, playing the guitar, piano, and drums, with an interest in learning the saxophone in the future. Creativity is something I value highly, particularly through 3D modelling and UI design, alongside a longstanding interest in architecture. I also enjoy spending time in nature, which helps me maintain balance and a clear perspective outside of work and study.

