Nathan Kirton

11 Chirton Avenue, NE34 7BW | 07910744234 | nkirton@hotmail.co.uk
LinkedIn: linkedin.com/in/nathan-kirton | GitHub: github.com/NathanKirton

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Personal Profile

I am a motivated and detail-oriented Computing student with strong analytical ability and hands on experience developing full-stack, backend, and distributed software solutions. I have skills in modern development practices, including microservices architecture, event driven systems, and structured methodologies, with experience in JavaScript/Node.js, Python, Java, MongoDB, and RabbitMQ. I have a strong work ethic, and I am committed to always giving my best, consistently embracing new development opportunities to expand my technical capability. I bring a thoughtful and observant approach to teamwork, contributing quietly at first and becoming increasingly engaged and collaborative as I build confidence within a team. I have experience in producing clear technical documentation, solving complex problems methodically, and adapting quickly to new tools and environments.

Education

Newcastle College University Centre — *BSc (Hons) Computing (Top-Up)*
Sep 2024 – May 2025 (Expected)
Currently completing final-year top-up to achieve full honours degree
Key modules: Advanced Software Development, Systems Design, Cybersecurity, Research Project

South Tyneside College — *Level 5 Computing for England*
Sep 2023 – Jun 2024
Achieved Merit
Focused on Software Development, Networking, and Systems Analysis

Harton Academy — *GCSEs*
Completed: 2021
Computer Science – 7, Maths – 6, English Literature – 6, English Language – 4, Combined Science – 6-5

Key Projects

NorthTech Reactive Microservices Architecture – Tracking, Logging & Notification System
(Node.js, Express, MongoDB, RabbitMQ)
I designed and implemented a distributed microservices architecture comprising independent Tracking, Logging, and Notification services communicating via RabbitMQ message queues. Developed RESTful APIs, asynchronous message handling, and reliable inter-service communication. Deployed services for external testing, resolved complex networking and configuration challenges, and produced structured documentation detailing system behaviour, data flow, and future scalability enhancements.

Move2Earn Fitness Reward Application
(JavaScript, Node.js, MySQL, HTML/CSS)
As part of my extended project I developed a fitness-based reward application enabling users to earn points through tracked activity. Implemented user authentication, activity logging, and a dynamic reward system backed by a relational database. Designed intuitive interfaces, applied structured design methodologies, and documented system workflows, testing procedures, and proposed future integrations such as wearable device data and real time analytics.

Technical Skills

Programming:
Python, Java, JavaScript (Node.js, Express), PHP, C/C++ (familiar)

Web & Software Development:
HTML, CSS, RESTful APIs, Microservices Architecture, Event-Driven Systems, React (familiar), MySQL, MongoDB

Tools & Platforms:
Git, GitHub, Visual Studio Code, NetBeans, Postman, RabbitMQ, Axure, Photoshop

Methodologies & Practices:
SDLC (Waterfall & Agile), UML, DFDs/ERDs, Testing & Debugging, Technical Documentation, Version Control, Problem Decomposition

Soft Skills:

Teamwork, Adaptability, Clear Communication, Analytical Thinking, Problem Solving, Organisation, Strong Work Ethic

Work Experience

McDonald's – Crew Member (Feb 2023 – Present)

Delivered high-quality customer service in a fast-paced environment. Collaborated with team members to meet operational goals while maintaining accuracy and composure under pressure. Demonstrated responsibility, reliability, and strong communication.

Subway – Sandwich Artist (Sep 2021 – Feb 2023)

Gained confidence in customer service and conflict resolution. Managed food preparation, hygiene, and order accuracy in a dynamic work setting.

Achievements & Interests

• Duke of Edinburgh Bronze Award — demonstrating teamwork, leadership, and resilience.
• Regular runner and volunteer at local Parkrun events.
• Passionate about UI/UX design, automation, and building efficient software systems.

References

References available on request.