

Rhyl, UK  
+44 7467429523

# Jack Nash

jack.nash6@gmail.com  
mistaomega.dev

## Work Experience

---

### Full Stack Developer

Radius

September 2022 – Present

Crewe, UK

- Refactored a long-standing data-layer conflict between two Oracle services that had been silently duplicating repositories and models across the codebase, changing tens of thousands of lines and roughly doubling development velocity across the team
- Upgraded our entire Java stack from version 14 to 21 across multiple microservices, presenting the proposal to senior leadership by framing technical benefits in terms of security risk reduction and faster feature delivery timelines
- Migrated the front-end build system from webpack to Vite and improved lazy loading, cutting the initial bundle size to a fifth of what it was and meaningfully improving load times
- Pushed for TypeScript adoption on our main React app after tracking recurring runtime type errors in production. Reduced these issues significantly and made the codebase much easier for new team members to work with
- Initiated and built out a Playwright test automation suite aimed at eliminating a 2-day manual regression cycle, alongside data generation APIs the QA team now uses regularly
- Added MEND security scanning (SAST and SCA) to our CI/CD pipeline to catch vulnerabilities before they hit production, following OWASP recommendations and getting buy-in from DevOps on the implementation approach
- Designed and built 90% of company's commissioning system used daily by Engineering teams - now lead occasional cross-team meetings to prioritize features and address user feedback
- Rebuilt core UI components that had been quietly accumulating technical debt, gathering feedback from stakeholders to address the friction points
- Modernised the front-end of an internal application by migrating to React 18 and introducing TailwindCSS, Zustand and RxJS, noticeably improving the development experience for the team
- Built real-time livestreaming feature, coordinating cross-functional alignment between product managers and DevOps teams
- Modernised legacy password hashing from outdated implementation to bcrypt following OWASP standards
- Completed a Management Development Programme including presentations to C-suite, learning how to communicate priorities to senior leadership in business terms
- Directly aided in the mentorship of 3 graduate developers through their first year, providing hands-on support and helping them transition from university to professional development
- Run daily standups and sprint ceremonies when development managers are on leave, documenting decisions and blockers in Obsidian to keep managers in the loop and ensure nothing gets dropped
- Improved how our team works by introducing better tooling and code review processes, which noticeably increased our sprint velocity and reduced merge conflicts

### AI Project Assistant

Edge Hill University

Sept 2021 – March 2022

Ormskirk, UK

- Improved machine learning model for predicting factory shutdowns through algorithm optimization and hyperparameter tuning
- Cut data processing time by over 20 minutes by adding a smart caching layer to the model
- Provided documentation and organisation to codebase, improving feature development time

## Education

- BSc in Computer Science - First Class Honours. GPA: 4

### Skills

---

- Languages & Frameworks: Java (8, 11, 14-25), Spring Boot, C#, ASP.NET, React (17, 18), TypeScript, JavaScript, HTML/CSS, NextJS, Playwright, Node.js
- Tools & Technologies: AWS, Docker, Git/GitHub, CI/CD, JIRA, Agile/Scrum, Oracle SQL, PostgreSQL, T-SQL, DynamoDB, Cassandra, Linux/Bash, Windows/PowerShell, TailwindCSS, ShadCN, Semantic UI, REST APIs, Obsidian
- Core Competencies: Test Automation, Microservices, Cross-team Coordination, Technical Mentorship, User Feedback & Product Improvement, Documentation, Security (OWASP), Legacy System Upgrades

### Projects

---

- **Programming Education YouTube Channel** (<https://www.youtube.com/@MistaOmega>) Created 80+ programming tutorials covering Python, JavaScript, React, and C++ with 461K views and 1.3K subscribers. Focused on making complex concepts accessible to developers at all skill levels. Technologies: Python, JavaScript, React, C++, Technical Communication, Teaching
- **Personal Portfolio** (<https://mistaomega.dev>) Portfolio website showcasing projects and technical writing, built with Svelte and TypeScript. Technologies: Svelte, TypeScript, TailwindCSS, Vite
- **Subnautica Nitrox** (<https://github.com/SubnauticaNitrox/Nitrox>) Open-source multiplayer mod for Subnautica with 50K+ downloads. Contributed networking features and bug fixes. Technologies: C#, Unity, Networking
- **OMenu** (<https://github.com/MistaOmega/OMenu>) C++ template for DirectX/OpenGL graphics injection. Technologies: C++, DirectX, OpenGL

### Qualifications

---

- **MTA: Security Fundamentals** (Microsoft) Microsoft certification in security fundamentals and best practices Jan 2021