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🔄 NafanJ

# Nathan Joel

Software Engineer

## EDUCATION

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**Queen's University Belfast**

Sep '17 - Jun '21

**Software Engineering with Placement (BEng)**

First Class Honours

**Relevant Modules:** Object Oriented Programming, Databases, Software Testing, Video Analytics and Machine Learning

## PERSONAL DEVELOPMENT

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**Global Exploration**

May '22 - Dec '23

For the past two years, I travelled through 40 countries, deeply engaging with varied cultures and settings. This journey refined my adaptability, enhanced my problem-solving capabilities, and improved my communication skills.

- **Ski Instructor in Niseko, Japan:** Bolstered my teamwork and project management abilities in a fast-paced, multicultural environment. Tasked with designing and executing personalised training sessions, I navigated diverse learner needs and winter sports challenges.
- **Activity Coordinator at a Surf Camp in Ericeira, Portugal:** Coordinated and oversaw daily activities to ensure a memorable experience for guests in a dynamic role. This position honed my project management skills through meticulous planning, coordination, and execution of surf lessons and events.

## PROFESSIONAL EXPERIENCE

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**Johnson Controls**

Jun '19 - May '22

**Software Engineer**

- Developed RESTful APIs using Python and Flask, enhancing system integration capabilities for UNIX-based server-client systems.
- Designed and implemented front-end features using React and Node.js, improving user interface and overall user experience.
- Produced detailed API documentation to support system integrations, streamlining communication between teams and enhancing system usability for both internal stakeholders and external partners.
- Led the adoption of Selenium WebDriver and PyTest for automated testing, boosting API test coverage by 50%. This initiative drastically cut down on manual testing efforts and accelerated the reliability and speed of system updates and release cycles.
- Enhanced CI/CD processes by integrating Jenkins with automatic PXE deployment, optimising the setup and configuration of UNIX/Linux systems. This improvement not only streamlined workflows but also significantly elevated development productivity across multiple projects.
- Actively participated in all phases of the software development lifecycle, with a focus on system requirement analysis, configuration, and deployments.

## PERSONAL PROJECTS

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**Home Server**

Sep '18 - Present

**Ubuntu 22.04.4 LTS**

- Regularly updated and maintained a home-based Linux media server, demonstrating profound technical skills and system management capabilities.
- Developed advanced Bash scripts to automate routine maintenance tasks, significantly enhancing system reliability and performance. Scheduled tasks via crontab to maintain seamless server operations, optimising for off-peak execution to minimise disruptions.

**Linktree**

Sep '23 - Present

<https://nafanj.github.io/linktree/>

- Replicated Linktree to establish a centralised hub for my side projects.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C#, JavaScript/HTML/CSS, SQL, Kotlin, Shell

**Frameworks/Libraries:** React, Flask, Selenium, PyTest, Jest

**Tools:** Nodejs, Vite, Webpack, Git, GitHub Actions, AWS, Linux, Wireshark, Postman, Swagger, Jira, Jenkins