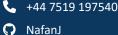
# Nathan Joel

Software Engineer



#### **EDUCATION**

# 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

### **PROFESSIONAL EXPERIENCE**

Jun '21 - May '22

## **Software Engineer**

#### **Development:**

- Contributed to the creation of RESTful APIs by employing Python-based frameworks, notably Flask for API construction and Swagger for API design.
- Designed and implemented a range of dynamic front-end functionalities using React and Node.js, enhancing user interaction and interface responsiveness.
- Demonstrated proficiency in integrating backend services, ensuring seamless data flow and improving overall application performance.
- · Maintained comprehensive documentation for API services, facilitating easier integration for front-end teams and external users.
- Proactively addressed production bugs and contributed to code reviews, adopting best practices in software development to maintain high-quality code standards.

#### Testing:

- Spearheaded the implementation of automation testing using Selenium and HTTP requests, significantly increasing API test coverage and efficiency by 40%, reducing manual testing effort, and enhancing the reliability and speed of release cycles.
- Utilized Jenkins to improve CI/CD workflows for automatic software deployment, boosting development productivity.
- Conducted more than 500 test cases and generated regular reports to guarantee extensive test coverage.

#### Agile:

- · Participated in the full software development lifecycle, from requirement analysis to deployment, ensuring timely delivery of features.
- · Coordinated effectively with internal teams and stakeholders to ensure seamless requirement fulfilment.
- Planned, tracked, and managed deliverables across short-term sprints.

Jun '19 - Jun '21

### **Software Engineer Intern**

- Developed a logging system for Video Management Software using C#, with MFC and Regex, reducing troubleshooting time and improving software issue diagnosis efficiency.
- Employed version control tools like Git to manage codebase changes and collaborate effectively with the development team.
- Engaged in continuous learning to stay up-to-date with the latest technologies and best practices.

## **PERSONAL PROJECTS**

#### Securify

#### https://www.securifyonline.com/

- Implemented a CI/CD Pipeline using GitHub Actions/AWS Amplify for seamless autonomous regression testing and deployment.
- Ensured mobile device compatibility through the implementation of media queries.

# Linktree

## https://nafanj.github.io/linktree/

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

#### **Technical Skills**

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

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

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

# **Additional Learning**

The Odin Project, Automate the Boring Stuff with Python