

# Nick Parke

## SOFTWARE DEVELOPER

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## PROFESSIONAL SUMMARY

*Detail-oriented software engineer with a BSc in Computer Science from Queen's University Belfast, seeking graduate software development roles. Completed a year-long placement at Liberty IT, building a scalable TypeScript/Angular component library and streamlining CI/CD pipelines. Improved code quality through automated testing and boosted deployment efficiency with Bamboo and GitHub. Strong communicator and proactive team player, experienced in Agile workflows, leading planning sessions, and presenting to stakeholders.*

## PROFESSIONAL EXPERIENCE

### Intern Software Engineer | Jun 2023 - Jun 2024

*Liberty IT, Belfast*

- Developed and documented a web-based, frontend component Library using Angular and TypeScript, creating 30+ reusable UI components to standardise front-end development.
- Refactored and expanded the Jasmine test suite, adding 100+ unit tests, boosting coverage by ~35%, and conducting peer code reviews to maintain best practices.
- Architected and deployed serverless Product Definition microservices using AWS Lambda, ensuring a fault-tolerant, low-latency distributed system for component hosting.
- Configured and optimised CI/CD pipelines in Atlassian Bamboo, reducing build times by 30%.
- Collaborated within a 10-member Agile team across two-week sprints, using Jira for sprint planning, daily stand-ups, reviews, and retrospectives.
- Delivered Program Increment summary presentations, actively engaging Product Owners and stakeholders to gather feedback and iterate on solutions that prioritised end-user needs.
- Researched and implemented Datadog APM for end-to-end monitoring, accelerating incident diagnosis and feeding performance insights back into development.

## EDUCATION

### BSc in Computer Science (2:1) | Sep 2021 - Jul 2025

*Queen's University Belfast*

- **Final Year Project:** Built a Python application to crawl and analyse financial news using BeautifulSoup, Pandas and Alpha Vantage; researched optimal keyword strategies and integrated time-series data visualisations.
- **Software Engineering & Systems Development:** Collaborated in an Agile team of 5 to manage sprints and build a Java-based sustainability simulation; shortlisted as Team Finalists for Engineers Without Borders 2023.
- **Web Technologies:** Created interactive and responsive web applications in a five-person Agile team.
- **Artificial Intelligence & Machine Learning:** Developed an image-classification model in R for automated image recognition and categorisation.
- **Software Testing:** Designed comprehensive black-box and white-box test plans and suites for an existing system.
- **Cloud Computing:** Implemented and deployed six microservices in different languages on a Kubernetes cluster, integrating them with a provided web front end.
- **Database Systems:** Designed database schemas using MySQL to query large-scale existing systems, and build new systems with provided datasets.

## SKILLS

### Programming Languages

JavaScript, Typescript, HTML5, CSS, Python, Java, SQL, R

### Frameworks

Angular, React, Node.js, NPM, Jasmine, Pandas, Alpha Vantage Time-Series

### Tools & DevOps

GitHub/GitLab, Bamboo CI/CD, JIRA, Docker, Kubernetes, AWS Lambda, Rancher, Datadog

### Soft Skills

Agile Methodology, Scrum, Teamwork, Team Leadership, Presentation Delivery

## PROJECTS

### Personal Website

<https://www.nickparke.co.uk>

- Built with React, HTML, CSS, JavaScript and managed via NPM, featuring a Landing page, CV/Resume page, and Contact page with direct links to LinkedIn and GitHub.
- Fully responsive design with a mobile-specific navbar that seamlessly switches to a desktop layout, ensuring intuitive navigation across all devices.
- Custom theming and animations, including a dark/light mode toggle with smooth transitions and animated navbar entries.

### Assetto Campionato, Racing Companion App

<https://github.com/nick-p-34/Assetto-Campionato>

- Python/JavaScript FastAPI application that generates custom championship rule files to extend Assetto Corsa's default championship mode, adding multiclass points and round-specific rules.
- Applies rules immediately after each race session, processes session data, and presents updated standings and championship statistics through a responsive web interface.
- Built with a flexible rule-engine architecture, with future plans to directly overwrite official Assetto Corsa result files to support multi-class functionality natively.

## AWARDS & ACHIEVEMENTS

### Motorsport UK Circuit Racing Licence

*National C Licence, 2024*

- Accredited by the Motorsport UK governing body, underscoring commitment to discipline, rules-based performance, and attention to detail under competitive conditions.

### Engineers Without Borders

*Team Finalist, 2023*

- Selected among top student teams nationwide to develop a sustainable engineering solution, presenting our Java-based e-bike network simulation concept at the UK finals.

### Duke of Edinburgh's Award

*Silver Award, 2019*

- Volunteered at Blythwood Ireland, learned Italian, maintained fitness through regular swimming, and completed a 3-day expedition, demonstrating commitment, teamwork and leadership.

### Boys' Brigade Queen's Badge

*Youth Leadership, 2019*

- Achieved the highest youth leadership award, leading team activities and organising community service projects, becoming a Non-Commissioned Officer in the largest company in the Battalion.