# Nick Parke

## SOFTWARE DEVELOPER

| **Email:** | **Phone:** | **Website:** | **Address:** |
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## PROFESSIONAL SUMMARY

*Detail-oriented software engineer with a BSc in Computer Science from Queen's University Belfast, and hands-on experience developing web applications, component libraries and microservices in Agile teams. Strong foundations in Java, TypeScript, React, automated testing, CI/CD and cloud-deployed services. Experienced in refactoring code, improving test coverage, performing data quality checks and collaborating across multi-disciplinary and global teams to deliver production-grade software.*

## PROFESSIONAL EXPERIENCE

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

*Liberty IT, Belfast*

- Developed and documented a frontend component library using TypeScript & Angular, producing 30+ reusable UI components to standardise front-end delivery and reduce development duplicated work.
- Refactored and extended the automated Jasmine test suite, adding 100+ unit tests and raising coverage by ~35%, improving release confidence and reducing regression incidents.
- Performed code reviews and implemented refactoring tasks to improve maintainability and adherence to engineering standards.
- 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%.
- Participated in Agile meetings, such as daily stand-ups, sprint planning and PI summaries, and presented to Product Owners and stakeholders to align delivery with business objectives.
- Implemented application performance monitoring with Datadog APM to speed up incident diagnosis and feed performance data into engineering improvements.

## 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 visualiations.
- **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**
Java, TypeScript, JavaScript, Python, SQL, HTML5, CSS, R

**Frameworks**
React, Angular, Kafka, Spring Boot, Node.js, NPM, Jasmine, Maven, Pandas, FastAPI, EmailJS

**Tools & DevOps**
GitHub/GitLab, Atlassian Bamboo, 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, and JavaScript, managed via NPM.
- Multi-page personal portfolio website featuring a landing page, web and downloadable CVs, a Contact page connected to an EmailJS inbox, and links to LinkedIn and GitHub profiles.
- Focused on responsive web design with distinct mobile-only behaviour and custom desktop styling, and showcasing performance focus through content caching in Cloudflare.

**Telemetrix, Racing Telemetry App**
*https://github.com/nick-p-34/telemetrix*

- Built with Java, REST, Spring Boot and Kafka, managed via Maven.
- Simulation of a racing telemetry system, creating an event with sample car data, publishing it to Kafka, and exposing a REST /recent endpoint to retrieve previous events.
- Focused on simplicity for practice, with a basic producer -> Kafka -> consumer structure, and local storage and containerisation for demonstration purposes.

## 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 Blythswood 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-Comissioned Officer in the largest company in the Battalion.