

# Nick Parke

## SOFTWARE DEVELOPER

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## PROFESSIONAL SUMMARY

*Self-motivated software engineer with a BSc in Computer Science from Queen's University Belfast and practical experience building large-scale front-end component libraries and backend microservices in Agile teams. Strong foundation in TypeScript, Python and Java, plus hands-on experience with test automation, refactoring, and code review to deliver robust, high-quality solutions. Comfortable working independently or across global teams, with experience managing sprints, creating CI/CD pipelines, and shipping production-ready 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 while following a test-driven approach.
- 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 ceremonies, such as daily stand-ups, sprint planning and PI summaries, presenting to Product Owners and stakeholders to align delivery with business objectives.
- Performed code reviews and implemented refactoring tasks to improve maintainability and adherence to engineering standards.
- 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 visualisations.
- **Web Technologies:** Created interactive and responsive web applications in a five-person Agile team.
- **Software Testing:** Designed comprehensive black-box and white-box unit test plans and suites for an existing system, ensuring full integration testing.
- **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.
- **Artificial Intelligence & Machine Learning:** Developed an image-classification model in R for automated image recognition and categorisation.
- **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

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

### Frameworks

React, Node.js, NPM, Angular, Kafka, Spring Boot, REST, Jasmine, Maven, Pandas, FastAPI

### Tools & DevOps

Git, Atlassian Bamboo, JIRA, Docker, Kubernetes, AWS Lambda, Rancher, Datadog, Office365

### Soft Skills

Agile, Teamwork, Team Leadership, TDD, Presentation Delivery, Stakeholder Engagement

## PROJECTS

### Personal Website

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

- Built with React, JavaScript, HTML and CSS, 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, showcasing a producer -> Kafka -> consumer structure, and local storage and containerisation for demonstration purposes.

### Telemetrix Sim, Mathematical Telemetry Model

<https://github.com/nick-p-34/telemetrix-sim>

- Built with Python and requests, managed via pip.
- Mathematical simulation of a race car, using vehicle parameters to simulate realistic telemetry at 20Hz, emitting the results for ingestion by Telemetrix.
- Focused on real-world accuracy, using official regulations for vehicle parameters, deriving performance mathematically, and demonstrating cross-compatibility via Telemetrix integration.

## AWARDS & ACHIEVEMENTS

### 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-Commissioned Officer in the largest company in the Battalion.