

# Fraser Dempster

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## EDUCATION

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### University of Glasgow

*Bachelor of Science in Software Engineering - First Class Honours*

**Glasgow, Scotland**

*Sept. 2018 – Jun. 2022*

## PROFESSIONAL EXPERIENCE

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### Barclays

*Full-Stack Developer* | Angular, React, Spring Boot

**London, England**

*September 2022 – Present*

- Redesigned and enhanced an existing user journey, driving an 11% increase in sign-up conversion rates.
- Implemented a registration journey for non-Barclays customers, unlocking a sizable new customer base.
- Developed and integrated Spring Boot REST APIs, validated with Insomnia, into the investor app.
- Engineered a comprehensive end-to-end testing suite using Cypress, encompassing user scenarios and chained API interactions, resulting in a more robust application and a significant reduction in UI bugs reaching production.
- Mentored junior engineers, elevating their performance and fostering a culture of knowledge sharing, resulting in a noticeable increase in tickets completed by the team.
- Optimised developer onboarding, cutting the process from 2 weeks to 3 days by creating comprehensive technical guides and onboarding documentation.

### Glasgow University Software Service

*React Native Developer*

**Glasgow, Scotland**

*Feb. 2021 – Dec 2021*

- Delivered a gamified learning app in React Native, teaching users the impact of Internet of Things devices.
- Created a captivating game map and player interactions, producing a dynamic and engaging user experience.
- Elevated team productivity by mentoring colleagues in effective Git and GitLab, streamlining collaboration.

### Repairel

*Full Stack Developer, contract*

**Glasgow, Scotland**

*Sep. 2021 – Oct. 2021*

- Developed features such as cookies, a wishlist, and user registration using Next.js and Node.js.
- Automated the build and test processes using Gitlab CI/CD and Cypress, replacing manual deployment.
- Implemented Google Analytics to track user footfall and user registrations.

### FreeAgent

*Android Engineer*

**Edinburgh, Scotland**

*Jun. 2021 – Sep. 2021*

- Implemented a RESTful API that delivers formatted and categorised financial data in Ruby on Rails.
- Developed a novel and interactive graph that visualised financial data for Android using Kotlin.
- Hosted technical talks at town hall sessions to foster knowledge sharing across varied audiences.

## PROJECTS

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### Barclays Charity Codefest | *React Native, Azure, Java, Git*

- Swiftly built a React Native app enabling therapists to quickly contact administrators during home visits.
- Incorporated an admin view in the app, presenting vital therapist details for seamless and effective management.
- Employed Azure Functions for real-time therapist updates via HTTP requests for status changes and emergencies.

### Gotta Graduate - An Interactive Experience | *Phaser, Node.js, Tiled, Webpack.js*

- Designed and implemented 'Gotta Graduate,' utilising a Tiled game map and Phaser for core game functionalities.
- Integrated the Smart Controller NPM package, enabling players to transform their phones into controllers by scanning a QR code for a unique and dynamic gameplay interaction.
- Stored player scores in local storage to ensure a seamless and replayable gaming experience.
- Established GitHub Actions for CI/CD and set up GitHub Pages for automated deployment.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Java, Kotlin, Python

**Frameworks and Libraries:** Angular, React, Next.js, Node.js, Redux, Spring Boot, React Native

**Technologies and Tools:** Git, Docker, Jenkins, AWS, Azure, Google Analytics

**Testing:** Cypress, Jest, JUnit, React Testing Library