Fraser Dempster

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EDUCATION

University of Glasgow	**Glasgow, Scotland**
Bachelor of Science in Software Engineering - First Class Honours	*Sept. 2018 – Jun. 2022*

PROFESSIONAL EXPERIENCE

Barclays — **London, England**

Full-Stack Developer | Angular, React, Spring Boot — *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 — **Glasgow, Scotland**

React Native Developer — *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 — **Glasgow, Scotland**

Web Developer, contract — *Sep. 2021 – Oct. 2021*

- Developed features such as cookies, a wishlist, and user registration using NextJS.
- 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 — **Edinburgh, Scotland**

Software Engineer Intern, Mobile Team — *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

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

Languages: JavaScript, TypeScript, Java, Kotlin, Python
Frameworks and Libraries: Angular, React, NextJS, Redux, Spring Boot, React Native
Technologies and Tools: Git, Docker, Jenkins, AWS, Azure, Google Analytics
Testing: Cypress, Jest, JUnit, React Testing Library