Libby Rear

Personal Information

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Relevant Work Experience

Nov 2023 - Present — **Full-stack Software Developer at Streamba, Glasgow**

- Working within a small team on an operations management and emissions reduction platform for the oil and gas industry.
- Front-end work was in React with TypeScript, with use of Bootstrap and Redux. Back-end work was in ASP.NET Core with C#.
- Created a requests page in the platform, in which users could request additional flights and voyages. Included functionality for creating, updating, deleting, approving and rejecting requests. Involved extensive work with Redux. Persisted to and fetched from Cosmos DB, implementing the Repository pattern to facilitate efficient data operations.
- Extensive work on user management page, including querying an API to retrieve data on user interactions with the platform, and displaying the data in a graph and table.
- Contributed charts and tables to a supply chain visualisation dashboard. This involved creating client-facing endpoints, querying the endpoints for operations data, processing the data and generating reports, which were persisted to a Redis cache. Using these reports, I created interactive graphs and tables, using React Google Charts and Bootstrap tables.

Aug 2017 - May 2018 — **Higher Maths Tutor, Edinburgh**

Worked 8 hours per week with a student who had previously failed Higher Maths, explaining concepts, preparing lessons and working through questions with him. The student earned a B in his exam and went on to study finance.

Education

2021-22 — **MSc in Software development, University of Strathclyde, Glasgow**
Grade: Distinction (80%)
Final Project: React Native app aimed at hospitality businesses that creates a rota based on the availability and preferences of employees. This involved solving a constraint satisfaction problem, for which I created a modified greedy algorithm using JavaScript. Google's Firebase Realtime Database and Authentication were used for the project's database. https://github.com/lubbly-jubbly/CalendarProject3

2018-21 — **BSc in Mathematics, University of Nottingham, Nottingham**
Grade: 1st, 84%
Dissertation: "Automatic and Cyclically Presented Groups" | Advisor: Prof. Martin Edjvet

2017-18 — **SQA Qualifications, George Watson's College, Edinburgh**
Advanced Highers in Mathematics, English and Statistics: A_1, A_1, A_2
Highers in Mathematics, English, French, Chemistry and Biology: A_1, A_1, A_1, A_2, B

Technologies

Languages	Python	C#	Java	HTML	CSS	JavaScript	TypeScript	MATLAB
Libraries	React	React Native	Redux	Bootstrap
Data	SQL	Cosmos DB	Firebase DBs	REST APIs	Redis
Other	Git	LaTeX	Figma	Android Studio	Docker	Node	Postman

Skills

Design Patterns	Strategy | Repository | MVC | Command handler | CQRS
OOP	SOLID principles | 4 Pillars of OOP
Design	Designing wireframes | Creating software based on mockups
Design Principles	WCAG | 7 Principles of Universal Design | Nielsen's 10 heuristics
Agile	Scrum | Kanban | Jira
Testing	Unit testing in Python, Java and JavaScript | TDD

Certificates

March 2021	Responsive Web Design Developer Certification, FREECODECAMP.ORG. Approx. 300 hours of coursework.
March 2020	Create with Code, LEARN.UNITY.COM. Approx. 37 hours of tutorials in C#.

Languages

English: Mothertongue
German: CEFR B2 Level
French: CEFR B1 Level

Voluntary Work

Sep 2020 - Aug 2021	**Maths Tutoring Leader, University of Nottingham.**
	I volunteered as a peer mentor for first year university students, running weekly maths help sessions as well as giving general support in their transition to university.