

Matthew Pearce

Software Developer

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OBJECTIVE

Passionate and enthusiastic computer science student with a creative mindset, looking for a role where my skills as a designer and developer can be used to it's full potential.

SKILLS

Languages

Java, JavaScript, HTML, CSS and SQL

Other Technologies

Git, Trello, AWS, Slack and Mockaroo

Frameworks

React, React-Native, Spring Boot, JUnit and Mockito

UI / UX design

InVision Studio

PROJECTS

Calorie Tracking App in React-Native

<https://github.com/mattyjjpearce/trackerApp>

- First IOS mobile app I developed from scratch
- Using Redux, Asynchronous storage, REST APIs
- Allowed users to search foods to add to their daily calories and several other features

Availability and Sprint Capacity Tracker with Capital One

<https://github.com/mattyjjpearce/Sprint-Capacity-and-Availability-Tracker>

- Developed a monolithic architecture, Using **Spring Boot** in **Java** for the backend
- Generated our own data with Mockaroo, My SQL workbench to connect to AWS Database
- Front End using React and an API service which is produced from the backend to handle the data
- Setting up sprints, updating kanban boards on Trello and organizing team meetings

Refactoring unmaintained Frogger Arcade Game - Java

Second year module, where we had to completely refactor a poorly maintained source code for the old arcade game Frogger in **Java**.

- Added features to the game
- Implemented OO design patterns
- J Unit testing

Implementation of a HyFlex Compatible Postal Worker Problem (PWP) Domain

- Implemented a hyper-heuristic as well as a test framework (Java using the Hy-Flex Framework)
- Finished a given code base, filling in several methods / classes
- Implemented multiple heuristics such as Inversion Mutation, Next Descent and more.
- Received a mark of 60% for the implementation of the code

Link to coursework report:

<https://docs.google.com/document/d/17z9ltOjK7WJHx9YKRrgCoMPXCZNpMM2a6tg2lISJBpU/edit>

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EDUCATION

BSc Computer Science student at the University of Nottingham

