Lucas Graham

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EDUCATION

University of Strathclyde *Glasgow*
Bachelor of Science in Computer Science *Sep. 2019 – May 2023*

Notable Modules
Data Analysis, Artificial Intelligence, Software Architecture and Design, Web-App Development, Logic and Algorithms, Database Systems, Computer Networks

PROJECTS

Deep Learning Honours Project | *Python, PyTorch, Docker* *Sep. 2022 – Mar. 2023*
- Researched and Developed a quarry vehicle detection solution utilising satellite imagery and a deep learning object detection algorithm
- Gathered, labeled and processed a bespoke dataset of satellite imagery
- Developed and fine-tuned a CNN object detector to accurately identify vehicles in real-time
- Worked towards defined deadlines to give progress reports and final project presentation

Boston Railway Pathfinder | *Java, JavaFX* *Feb. 2022 – Apr. 2022*
- Developed an interactive path finder for navigating the Boston railway network
- Powered by an A-star algorithm considering cost of travel time and line switching
- Built an intuitive UI-based desktop app using JavaFX to interface the backend in a decoupled architecture style
- Automated unit testing of the app using JUnit

Wellbeing Mobile Web App | *HTML/ CSS, Javascript, PHP, MySQL* *Feb. 2022 – Mar. 2022*
- Worked with peers to design and develop a mobile-focused web application comprised of a variety of mini games and puzzles aimed to stimulate the brain in a fun and interactive manner
- Employed the use of device geolocation sensors in game functionality to increase user immersion
- Implemented server-side leaderboard functionality and browser cookies allowing users to compare scores amongst others and themselves
- Utilised Git for version control and collaboration during development, allowing streamlined implementation of individual members' contributions

EXPERIENCE

Web Developer *Jul. 2022 – Aug. 2022*
Refrigeration Aberdeen
- Worked with a manager to determine companies requirements and needs
- Maintained and updated companies existing website

Event Technology Coordinator
Mar Orienteering Club
- Volunteered intermittently to plan and organise local orienteering events
- Set up event hardware and software for managing timing and results systems
- Promptly dealt with technical issues that arose during the events to ensure smooth operation

INTERESTS

I am enthusiastic about keeping fit through a combination of running and cycling, receiving a strong sense of satisfaction from following a consistent training plan to see tangible improvement in my abilities.

TECHNICAL SKILLS

Languages: Java, Python, C, PHP, SQL, JavaScript, HTML/CSS, Haskell
Developer Tools: Git, Docker, VS Code, Visual Studio, Eclipse
Libraries: pandas, NumPy, Matplotlib, pyTorch, TensorFlow, Theano, Node.js, React
Other: Agile, Scrum, Kanban