

Lucas Graham

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EDUCATION

University of Strathclyde

Bachelor of Science in Computer Science

Glasgow

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

Fitness Tracking Web App | React, TypeScript, Node.js, Postgresql, AWS

Oct. 2023 – Dec. 2023

- Designed and developed a fullstack webapp for users to post and share running and cycling activities
- Developed a dynamic SPA frontend in React with a focus on responsiveness and user experience
- Implemented a robust backend using Express and Node.js, incorporating RESTful APIs to facilitate seamless interaction with the frontend, DB and external APIs
- Integrated a PostgreSQL database to store and manage user and application data

EXPERIENCE

Web Developer

Refrigeration Aberdeen

Jul. 2022 – Aug. 2022

- Worked with a manager to determine company's requirements and needs
- Maintained and updated company's 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