Oliver Atherton

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Education

Software Engineering BSc (Hons)   **University of Huddersfield**   **Graduation: 07/2027**

- **Expected Grade:** First Class
- **Relevant Modules:**
  - Software Design and Development
  - Project 1
  - Computer Organisation and Architecture
  - Computing Science and Mathematics
  - Computer Network Fundamentals
  - Team Project
  - Relational Databases and Web Integration
  - Object-Oriented Systems Development
  - Algorithms and Data Structures
  - Introduction to Artificial Intelligence
  - Operating Systems

Skills

- **Languages:** JavaScript, TypeScript, Python, C#, C, Java, CSS, HTML, SQL
- **Technologies and Frameworks:** React, Node.js, Express.js, MongoDB, Redux, Material UI, Bcrypt, React-Router-DOM, Flask, Socket.IO
- **Tools:** Postman, MongoDB Compass
- **Personal:** Friendly, Positive Attitude, Teamwork and Collaboration, Problem-Solving, Attention to Detail, Multitasking

Projects

- **Social Media Project (MERN):**
  - Developed a comprehensive social media platform using the MERN (MongoDB, Express,js, React, Node.js) stack.
  - Integrated Redux for state management, Material UI for enhanced UI components, Bcrypt for secure authentication, and React-Router-DOM for seamless navigation
  - Implemented features for user authentication, data storage and real-time updates.

- **React CRUD App:**
  - Created a meetup application using React and Firebase.
  - Implemented features for creating, reading, updating, and deleting tasks with real-time updates.

- **Online Chat Room:**
  - Implemented a real-time chat application using Python, Flask, and Socket.IO, with chats being sent through a WebSocket connection instantly.
  - Featured server-side logic with Flask, real-time communication with Socket.IO, and dynamic HTML templates with Jinja2.

- **Chess Engine and AI:**
  - Developed a comprehensive chess engine in Python using the negamax algorithm and alpha-beta pruning, allowing the bot to analyse up to 5 moves ahead in seconds.
  - Included modules for the user interface, core chess logic, and an AI opponent.

Others Achievements

- **Duke of Edinburgh Bronze and Silver Award**: Demonstrated commitment, problem-solving, teamwork, time management, communication, resilience, adaptability, leadership, and critical thinking.

- **Volunteering with Local Charities:** Enhanced teamwork, communication, and problem-solving skills.