

James Clarke

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EDUCATION

University of Exeter 2024 – 2028 BSC Computer Science with a year in Industry

Key modules include Network and Computer Security, Software Development, Fundamentals of Machine Learning, Object-Oriented Programming, Web Development, C family

Current Grade Average: 67%

Tadcaster Grammar School 6th Form 2022 – 2024

Computer Science (A), Maths (A), Physics (B)

Maths club, Computer Science Tutoring

Loughborough College 2022 – 2024 Pearson B-Tec Diploma in Sporting Excellence in

Partnership with England Hockey, pass achieved **Tadcaster Grammar School 2017 – 2022**

Grade 8 in Maths, Grade 8 in Further Maths and Grade 7 in English Language

11 Total GCSEs with a grade average of 7.45

Technical Skills

- Highly experienced in Python and Java,
- Knowledge in Web development including proficiency in HTML, CSS and JavaScript
- Knowledge of Functional Programming languages including Haskell
- Knowledge of low level Programming languages including C
- Knowledge of SQL database theory, and practical implementation
- Experienced in Object-Oriented techniques and design patterns
- Knowledge of basic machine learning concepts including Linear regression, Logistic regression and Bayesian Networks
- Experienced with an array of Linux distributions including Debian and Arch

Work Experience

ISCA Hockey Club Umpire September 2025 – Current

- Working within a team of two to manage a game of 32 players
- Working under stress and tension requires interpersonal skills to deescalate situations and prevent altercations
- Strong leadership and quick decision making needed to verify decisions and communicate them effectively to players on the pitch to allow quick gameplay

MyTutor June 2025 – Current

- Completed Welfare and Tutoring training to support and protect students
- Role involves online tutoring multiple children with differing needs and resources, requires adaptability and communication skills

Poll Clerk July 2024

- Required working within a team to a strict deadline to ensure the timely completion of the voting process
- Cross checking and verifying voters IDs without errors against strict policies

Volunteering

Hockey Coach at City of York Hockey Club 2020 – 2022

- Using leadership skills to create training plans and foster the development of children of multiple ability levels in hockey
- Worked to provide quantifiable long-term benefits to players ability and confidence

Technical Projects

Full Stack Web App 2026

- Using a tech stack of React, Django, and SQLite, I am currently working on a project involving the development of an app dedicated to reducing food waste by providing a marketplace for excess food for suppliers and supermarkets.
- Includes a variety of features including a gamification layer, price forecasting, demand predication, seller analytics and a fully implemented login system
- Worked within a group of 7 as the Team lead to keep the team on track technically and through multiple other aspects including presentation preparation, documentation and progress meetings

Personal Server 2020-2021

- In trying to improve my knowledge around development to production pipelines, CI/CD workflows and deployment strategies I am running my own personal server I am currently configuring to run continuous development for future projects
- This includes a docker registry for version control of protection ready services, a VPN for global secure access and an FTP server for general file storage

Interests

Hockey 2012 – 2025

- Member of Exeter Men's first team, competing in the top university league, and the second-tier men's league across the UK
- Consistently playing highly competitive games under constant statistical analysis proving high performance under pressure and the ability to adapt and improve rapidly to meet demands