# Tom Robertson

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## Personal Profile

A driven and hardworking Computer Science Masters student with industry-related experience, possessing a sound understanding and proficiency in numerous programming and web development languages, with experience in front-end and back-end development.

## Education

**Newcastle University** **Current average first class**
*Advanced Computer Science MSc* *Expected Graduation: August 2021*

**University of Liverpool**
*Computer Science BSc (Hons)* *Class Two Division One*

## Work Experience

**University of Liverpool**
*Junior Technician* *Oct 2018 - Jul 2019*
- Redesign department's websites in terminalfour content management system
- Setting up Linux and Windows machines
- Managing the technical support help desk

Developed a touch screen friendly web application allowing users to search staff directory and find offices with a map. Front end was developed in Vue.js, using a new MySQL database and created a REST API with Node.js and CRUD API in PHP.

## Skills

- Familiarity with programming environments such as Node.js, Hadoop, Apache Storm, Spark, Docker, JUnit, AWS deployment with EC2 image
- Programming languages used over studies: Python/Java/MySQL (4Y), PHP/Javascript/Vue.js (2Y), R/C (1Y)
- Modules undertaken: Data Structures and Algorithms, Cloud Computing, Java Programming, Internet of Things, Machine Learning, Data Mining, Big Data Analysis, Security Fundamentals

## Projects

**Postgraduate Project** *April 2021 - August 2021*

Bartering web application implemented through blockchain - Consists of a Vue.js front-end and a Hyperledger Fabric back-end that deploys JavaScript smart contracts

**Postgraduate Group Project** *March 2021*

Front-end developer of a web application using Vue.js to retrieve and display graphically API data from one of Newcastle University's smart buildings.

**Undergraduate Project** *February 2020 – June 2020*

Financial computing project - Developed a trading strategy in R from price data of anonymised stocks.