

TOBY DRANE

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Summary

I am a conscientious, ambitious and reliable individual. I hold a first-class honours in BSc Computer Science and a MSc Data Science and Machine Learning student at UK's top University (UCL).

Skilled in software engineering practices and technologies, scalable architectures and high-performance systems, along with experience in agile working methods.

My interests are in modern web programming and cloud networks, along with a keen eye for UI design.

Awards

1. Bishop Laneys Charity (<https://www.bishoplaneyscharity.org.uk/>) – Grant of £500 pounds to help towards Postgraduate studies (awarded September 2020).
2. The Ann D Foundation – Grant of £5000 for cost of Postgraduate tuition fees (awarded September 2020)

Core Skills

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|---|--|
| • Continuous integration / deployment lifecycle | • Relational SQL models |
| • Development of test frameworks | • HTML, CSS & CSS libraries |
| • Automated testing | • Bundler tools such as Webpack, Rollup, Babel |
| • Version Control | • Cloud computing - Amazon Web Services and Google Kubernetes Engine |
| • Javascript & NodeJS | • Containerisation using Docker |
| • Serverless Computing | • Slack, Trello & Notion.so |
| • React JS, React Hooks | • Java, Python, PHP |
| • Redux state management | |
| • Oracle, PostgreSQL, MongoDB | |

Education

2020-2021 MSc Data Science and Machine Learning

Postgraduate in Data Science and Machine Learning
UCL

2017 - 2020 Keele University, Staffordshire ST5 5BG

BSc in Computer Science
www.keele.ac.uk/ugcourses/computerscience/
Graduated with a first-class honours (78%).

Dissertation title; 'Measuring and Comparison of Microservice and Monolithic Elasticity and Scalability on Cloud Networks'

2015 - 2017 Long Road Sixth Form College, Cambridge CB2 8PX

A' Levels: Computer Science, Maths, Physics

2010 – 2015 Cottenham Academy, Cottenham, Cambs CB24 8UA

GCSE's: 11 including (including Computer Science & Maths)

Employment History

July – September 2020 Techspert.io, 52 Burleigh Street, Cambridge, England, CB1 1DJ

Currently working on their connect application used in house to connect external clients with experts around the world.

- Advanced AngularJS web programming
- Backends and authentication written with AWS Lambdas

July – September 2019 Cambridge Intelligence, 6 – 8 Hills Road, Cambridge, CB2 1JP
React Javascript Developer Intern

Worked on the company's 'ReGraph' product a React toolkit for data visualization. In a small team of 5 senior developers including the company's founder and CEO.

- Advanced React programming including React hooks, and Redux state management.
- Building and testing applications using modern frameworks including Rollup, Webpack and Jest.

- Internal infrastructure DevOps using Docker containerisation and GitLab Kubernetes.

<https://cambridge-intelligence.com/toby-internship-2019/>

January – June 2019 Keele University / Exesios BDD, Stoke-on-Trent ST4 8GB

Worked in partnership with Keele University and Exesios BDD on a research and innovation project 'KRISP.'

<https://www.keele.ac.uk/business/keeledeals/newkeeledeal/priorities/keeleresearchandinnovationsupportprogrammekrisp/>

Researched and built (using Javascript) an automated machine learning tool (using natural language processing) to help with the creation of a place branding software. Met with Exesios and the University weekly to ensure timely updates and the vision of the project was being delivered. Initial prototype released to early adopters for feedback in June 2019.

July – September 2018 Cambridge Intelligence, 6 - 8 Hills Road, Cambridge, CB2 1JP

Javascript Developer Intern

Worked on 'KeyLines' a world leading Javascript SDK for data visualization and analysis. Coding of new product features and bug fixes. NodeJS development including database connections hosted via AWS. Worked within a team of 12 developers, with an agile working methodology.

- Writing and testing code using Mocha and Chai, test driven development running on CircleCI with in an internal company orchestration system.

My CI blog <https://cambridge-intelligence.com/internship-toby/> including pictures of my attempt at fudge making during one of our company social events.

August 2015 – August 2017 Waitrose Ely, Cambs CB7 4QJ

Part-time Customer Service Advisor

- Working part-time at the weekends managing fresh food counters
- Set up the area prior to store opening ensuring suitable levels of produce available

- Serving customers to the high standards expected of the John Lewis/Waitrose group

Additional Information

- Member of the Cambridge NodeJS/Javascript network
- Take a strong interest in keeping up to date in modern technologies and languages and actively look to engage with open source software
- Enjoy looking for new ways to disrupt sectors using technology
- University of Keele American Football Sports Club committee member