

DAVID MONTGOMERY

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PERSONAL DETAILS

Seeking a placement opportunity to learn, develop expertise and contribute to a company's success. A versatile, conscientious, creative student excited to absorb as much knowledge as possible and make a difference. Experience of taking responsibility, working in a team and delivering projects on time in a small, high growth company. With high grades, passion for technology and proven problem solving abilities.

EDUCATION

2019 - Present Queen's University Belfast Computer Science BSc (Hons)

Year 1 Modules (Avg. mark 82%)

Architecture & Networks (92%), Object Oriented Programming (86%), Procedural Programming (84%),
Web Technologies (82%), Fundamentals of Mathematics for Computer Science (80%), Databases (68%)

2013 - 2015 Loughborough University Sport and Exercise Science BSc (Hons)

- Undertaken while cycling at Elite/International level for Ireland.
- Turned professional in 2015, taking a leave of absence from studies, having passed first year successfully.
- Gained experience and insight from my cycling career and travelling the world, realising the incredible opportunity technology brings to any industry.
- Withdrew from these studies to commit to a career in technology.

2009 - 2013 Banbridge Academy A Level & GCSE

Biology (A*), Technology & Design (A*), Physics (B)

A Level

6 A*'s, 4 A's, including English & Maths.

GCSE

TECHNICAL SKILLS

Languages: *experienced with* Java, C++, HTML, CSS, JavaScript, SQL

some familiarity with Python, Ruby, Go

Software/Frameworks: Ruby on Rails, jQuery, Bootstrap, JavaFX, Git/Github, Amazon S3, Photoshop, iMovie, Excel/Microsoft Office

PROJECTS

Vending Machine Application (Java/JavaFX) OOP Coursework

- Demonstrated knowledge of OOP concepts in a console based vending machine application.
- Offered a text interface, allowing user to insert coins, view items/prices, purchase items and receive change.
- Incorporated a secret, password protected service mode, allowing engineer to add more items/change prices/restock/add coins.
- Taking this further as a personal project, adding a GUI, learning JavaFX.

iSPY - A Text Based Adventure Game (HTML, CSS, JS) 3 Person Group Project

- Co-wrote storyline, created design theme and all graphics.
- Developed a fun, unique experience in 'Dog Fight' mini-game. The player must click dog image to attack, but image moved randomly on 'hover' cursor action. With time limit and beautiful countdown timer display.
- Paid careful attention to accessibility, adding a plain background, enhanced text 'easy-read' mode and a help button with advice.
- Built overarching timer with JS, ensuring time limit was not exceeded.
- Of course performed endless debugging for my first group work project, as we had no knowledge of Git. Co-operated constructively with my team members to keep on schedule and deliver on time.

Restaurant Review Website (Ruby on Rails) Personal Project

- Developing a responsive web application from scratch. This self study is part of a larger project to build a marketplace for cyclists.
- Educating myself about Git, MVC architecture and frameworks like Bootstrap, jQuery. Integrating methods, testing and debugging them.

- Researching & installing gem packages, utilising command line interface, building a database in SQLite.

PROFESSIONAL EXPERIENCE

Oct 2015 - Present

Your Best Ride

Founder/Coach

- Writing weekly coaching plans that people can rely on, trust in and buy into.
- Constructing strong coach-athlete relationships. Listening, encouraging, looking for non verbal communication. Ultimately helping people reach goals and offering support through thick and thin.

Jan 2017 - Nov 2019

Trademark Masons

5 Axis CNC Programmer/Operator

- Scheduled, programmed and operated a 5 Axis CNC Machine to produce bespoke stonework for the most prestigious 5* hotels in London. From quartz soap dishes to one piece marble bar counters.
- Received initial basic training during machine installation. Taught myself how to do complex machining operations, as this was the only machine in this country, which used proprietary software and only Italian support.
- Composed accurate time estimates for projects. Knowing what to prioritise when not everything can be done in time. Worked overtime when necessary to keep projects on track and not delay others. Documented and reported bugs encountered with machine to manufacturer (1st edition model).
- Rigorously simulated and tested machining operations before running them. Worked with minimum supervision to strict deadlines, taking responsibility for quality and accuracy of work undertaken, continuously refining my systems.
- Trained and supported co-workers to assist with loading and unloading machine and basic programming as I moved into a more managerial role, liaising with designers and managing operations of this machine to maximise efficiency and quality.
- Oversaw design and installation of an incredibly intricate project at Nathalie Restaurant, London. Took part in design meetings with restaurateur Juan Santa Cruz and his team. Produced a concept, cut and positioned over 100 Dalmata slabs in a groundbreaking 3D book-matching effect.
- Communicated clearly between the design and manufacture teams to make the most efficient cutting plans for the 3 Axis machines, delivering premium products while minimising wastage.
- Worked in a team, as an objective, positive, forward looking voice when things didn't go to plan in high pressure situations.
- Put in charge of factory when manager was elsewhere.
- Quickly mastered software like AutoCad and SolidWorks.
- Strictly adhered to health and safety regulations. Tried to set an example and look out for others in an extremely dangerous industry.

Jan 2015 - Dec 2016

Team 3M, An Post ChainReaction Cycles

Professional Cyclist

- Fulfilled a long term goal of becoming a professional road cyclist, relocating to Belgium.
- Took initiative to race Cyclocross through the Winter; setting up sponsorship deals, race program, accommodation, support staff and PR.
- Represented Ireland at World Cup and World Championship events.

INTERESTS

- Member of Queen's Computing Society (QCS). Attend various events throughout the year; building relationships, tech knowledge and coding skills. E.g AWS DeepRacer, learning about Go.
- Attending talks and Meetups, like 'Tech Tuesday' held by QCS/Queen's and IoTBelfast community. Recently attended NIDC, gaining great insights into new technology and meeting new people.
- Keeping fit & healthy; balancing hours spent behind the computer screen with sport, including cycling, Tai Jitsu and strength training. 8x Irish Champion in multiple cycling disciplines.
- Volunteering for local cycling club to help organise races, coaching, mentoring and analysing performance data.
- Launched a Youtube channel. Learning video editing. Currently cycling based, but working on using this platform to help beginner programmers on things that I struggled with (looking at you 'installing JavaFX!').
- Featured in 'Gardening Together' TV program over lockdown. Designing, landscaping and co-ordinating the project with Diarmuid Gavin to help Mum realise her dream garden.

References available on request
