# Bryn Hanby-Roberts

*Curriculum Vitæ*

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## Education

**2013–2017, with 2016 in industry**  **BSc Computer Science**, *The University of Manchester*, Manchester, **First Class**.
- First and second year units included: **OOP** in Java, **System Architecture**, **Algorithms**, Computation, Databases, Operating Systems and **Software Engineering.**
- Led my team in our first year web project, utilising **Git** for version control.
- Final year units included: **Agile**, **UX**, **Compilers** and **Graphics**.
- Final year project: iOS app to assist learning sign languages by demonstrating hand models of different letters. Also utilised iPad camera to detect letters being shown by the user.

**2011–2013**  **A Levels**, *Oldham Sixth Form College*, Oldham, *Attained 3 A Levels and 1 AS level*.
Computing: **A**, Mathematics: **B**, Business Studies: **B**, Physics (AS): **C**
Achievement of interest: Achieved the Computing Progress Prize for attaining the **maximum** mark in my final year coursework.

**2006–2011**  **GCSEs**, *Saddleworth School*, Uppermill, *8 GCSEs and 2 BTECs attained, relevant listed*.
English Literature: **A**, ICT: **A**, Additional Science: **A**, Mathematics: **B**, English Language: **B**
Achievement of interest: All GCSEs were B grade or above.

## Experience

**2020–2021**  **Software Engineer II**, *Microsoft Lift*, Paddington, London.
- Currently working on Cortana first party skill development in **C#**, and **UWP** app development.
  - Over 2 years, designed and implemented the new Cortana in Windows experience, delivering a more productivity-focused assistant, and detaching it from the operating system shell to make the product easier to update.
  - Designed and implemented core system components utilising strong software architecture skills.
  - Additionally developed bot skills to add functionality to the AI assistant, such as the "Open app" skill, and "Join my meeting" skill.
  - Supported these skills in a 24x7 on-call livesite rotation, being the directly responsible individual for studio and partner-owned skill services.
- Assisting in Cortana and Visual Studio platform development in "development and learning" time to help the wider company and develop something interesting to me.
- Active in Microsoft's LGBT+ employee resource group, attending worldwide conferences to promote team D&I initiatives.

**2018–2020**  **Software Engineer**, *Microsoft Lift*, Paddington, London.
- Worked with the Edit 3D team on Paint 3D, implementing file serialisation and engine rendering functionality in **C++/CX**.
- Architected a Paint 3D file format by serialising the 3D scene into an OPC-based file.
- Wrote a new session parser in **C#** to provide more robust persistence functionality.
- Created Unity prototypes to demonstrate snapping and alignment features.

**Winter 2017**  **Software Engineer**, *Fatsoma*, Manchester.
- Briefly worked in a distributed agile team across the full stack on a ticketing platform. My main project was migrating the service from PHP to Golang.
- Tools used include: Git, Postman, Dep, CircleCI and Terraform.
- Agile techniques employed: Kanban boards, daily standups, remote working (>50%), retrospectives, TDD.

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| 2015–2016 | **Corporate Operations Engineer Intern**, *Google UK*, Victoria, London. |
| | ○ Provided IT support for Googlers. Also in charge of improving processes and overseeing changes to remote sites, at points being directly responsible for an entire office's internet connectivity. |
| | ○ My technical project was the Corp Notifications front end, which deployed notifications to a user or machine via popup, email, etc. |
| |    - As the project was **self-taught**, I worked independently to develop the solution. |
| |    - Front end utilised Google App Engine, Material Design and AngularJS to make the web app versatile, modern and coherent with Google's design spec. |
| | ○ Nominated for 7 peer bonus awards and 1 spot (manager) bonus for exemplary performance. |
| Summer 2014 | **ISR Intern**, *Apple, FileMaker*, Stockley Park, London. |
| | ○ Worked in a small team to help promote and sell Filemaker SaaS solutions in the UK and EMEA. |
| | ○ This role taught me a lot about how to communicate well with others. |

## Volunteering

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| 2021– Present | **Volunteer Vaccinator**, *St John Ambulance*. |
| | ○ Fully trained vaccinator in mass vaccination centres, working with healthcare professionals and other volunteers to protect citizens from COVID-19 and end the pandemic. |
| | ○ This role requires stellar interpersonal skills, calmness, willingness to learn and adapt. |
| 2008-2014 | **Duke of Edinburgh's Award**, *Bronze, Silver and Gold*. |
| | The award encouraged me to be more active in the community and learn a variety of skills and sports. Activities included: |
| | ○ Helping 8-10 year olds at the local cubs brigade. |
| | ○ Volunteering in the village library. |
| | ○ Training for and completing the Manchester 10 kilometre run in an hour. |

## Interests

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| Investing | ○ During the pandemic, I have spent a lot of time looking at financial investment. |
| | ○ I have used this time to learn about different indicators, instruments, products, the way the market works. |
| | ○ I am currently looking to manage my own money and learn about how trading works in the industry. I have traded stocks, CFDs and options so far. My current aim is to invest with a stable return, hence my focus has shifted from speculation to dividend investing. |
| Programming | ○ Developing a dashboard to help organise and assist me with my investment hobby. |
| | ○ Participate in local and company-wide **hackathons** in my spare time, and organised The Great Uni Hack at university. |
| | ○ Set up a personal web server, email server and name server. |
| | ○ Self-taught Swift for hobby use and my final year project. |
| Off the PC | I enjoy photography as a hobby. Additionally, I keep up with the latest technology news and current affairs via sources such as BBC, Ars Technica and Gizmodo, and financials via Bloomberg, Reuters, and Seeking Alpha. Also listening to amateur trading streamers. |

## Additional

○ Certified Microsoft Azure DevOps Engineer Expert 2021.
○ Certified Microsoft Technical Associate 2018/Azure Developer Associate 2019.
○ Finalist for Target Jobs **Undergraduate of the Year** award in Computer Science, IT and Physics 2017.
○ University of Manchester School of Computer Science **Head of School Prize.**
○ **Manchester Leadership Award** for volunteering and understanding leadership.
○ Driving licence: Full, clean.

## References available on request