# 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.

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## Experience

**2021–Present**
**Quantitative Developer**, *Coremont*, Brevan Howard, Baker St, London.
- Currently working on Clarion, a portfolio management system for hedge funds and investment managers, written in **C#**.
- I sit on the API team that formats and passes information between the customer-facing web front end and the "grid" backend of pure financial data.

**2020–2021**
**Software Engineer II**, *Microsoft*, Paddington, London.
- Worked 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 and iterate on.
  - Designed and implemented core system components (e.g. suggestions system, eligibility service, A/B testing service), utilising strong software architecture skills.
  - Additionally, developed remote bot skills to add functionality to the AI assistant, such as the "Open app" skill, and "Join my meeting" skill.
  - Supported skills in a 24x7 on-call livesite rotation, being the directly responsible individual for studio and partner-owned skill services.
- Assisted 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*, 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 spent time studying financial investment. |
| | ○ Prior to my current role, I managed my own portfolio of stocks, CFDs and options. |
| 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. |

## 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 leadership.
- ○ Driving licence: Full, clean.

## References available on request