

Will Russell

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Education

BSc Computer Science – University of Birmingham (2018 to 2021). On track for a 2:1.

2:1 (67%) in First Year, with 90% in Data Science for Everyone, 80% in Data Structures and Algorithms, 78% in Programming in Java.

A Levels – Hinchbrook Sixth Form (2016 to 2018)

Mathematics: A, Computer Science: A, Physics: B, Extended Project Qualification: B

GCSES – Longsands Academy (2011 to 2016)

6 As, 3 Bs, and 1 C, including A in Maths, and C in English Language.

Experience

Outreach Lead – HackTheMidlands CIC (May 2019 to present – *volunteering*)

- Helping plan, organise, and run the audio, visual, and special effects for the auditorium.
- Sourcing sponsorship, organising and running meetings, leading, marketing, and general logistics.
- Trying to improve the tech opportunities for school students.

STEM Ambassador – STEM Learning (August 2019 to present – *volunteering*)

- Spreading awareness of tech opportunities to schools.
- Running talks and workshops for schools to teach kids how to use libraries and tools.

Mentor – Arkwright Engineering Scholarships (November 2019 to present – *volunteering*)

- Helping students with university choices, and career paths.
- Encouraging students to get more involved with technology opportunities around the UK.

Platforms Hardware Engineer – Arm Ltd (June 2019 to September 2019 – *3-month internship*)

- Creating Python drivers for the Arm MPS3 FPGA Prototyping Board memory chip controller, and lab instruments for automated testing.
- Setting up the Platforms Hardware Jenkins CI/CD server for testing embedded boards with Windows and Linux.
- Lead of the winning team of the Intern Challenge.

Electronics Engineer Student – Arm Ltd (July 2017 – *1-week work experience*)

- Automated a temperature controller using Python and the modbus serial communication protocol.
- Learnt how to work with unfamiliar tools, such as modbus, and Python.

Electronics Engineer Student – Arm Ltd (July 2015 – *2-week work experience*)

- Worked independently with the Arm mbed platform.
- Created a GPS Compass Arduino which displayed a compass needle on an LCD.

AV Technician – Levitation Events (2015 to present – *part time work*)

- Work in a small team to setup equipment under time pressure.
- Running audio, video, lighting during performances.
- Able to identify and fix problems quickly during shows.
- Currently running the ceremonies and presentations for hackathons around the UK.

Digital Leader – Hinchbrook Sixth Form (2016 to 2018 – *volunteering*)

- Organised meetings with departments to discuss their requirements for the school's department website.
- Presented to the school's strategy team with our ideas for the new website.
- Developed teamwork and communication skills.

RYA Dinghy Instructor – Paxton Lakes Sailing Club (2016 to present – *part time work*)

- Developed great communication, and teamwork, and leadership skills.
- Responsible for managing assistant instructors teaching children and adults sailing.
- Powerboat Level 2 license and first aid trained.

Skills and achievements

Hackathons

- **Newbie Prize** with Smart Meal Planner – HackTheMidlands (November 2018)
- **Best Hack** with Notendo Tunes – AstonHack (November 2018)
- **Nexmo Sponsor Prize** with Rap God – Royal Hackaway. (February 2019)
- **Guardtime Sponsor Prize** with Hexblock – HackSurrey (February 2019)
- **Best Hack** with Talking 2.0 – WarwickHACK (March 2019)
- **Hackiest Hack** with Willmojis – OxfordHack (November 2019)

Technology

- Experience with Java, Python, git, Linux, Android, Jenkins CI, C#, HTML, CSS, C, and Haskell.
- Favourite text editor: Visual Studio Code.
- **Leader of the winning team** of the Intern Challenge at Arm.
- **IT Award** for my dedication and contribution to the Computer Science department at sixth form.

Technology Community

- **Winner** of the DurHack Super Hacker Award for my contribution to the UK Hackathon community.
- **Nominated** as one of the **most inspirational members** of the **Major League Hacking community** in 2019.

Programming Projects

- **Food Flex Discord Bot:** A Discord bot written in Python, to help friends rate each other's food and compete.
- **Lego leJOS EV3 Bluetooth Android App:** Android app that displays SVGs from a Lego leJOS EV3 via Bluetooth. Used to display the maze that the robot was traversing.
- **Form bot:** A Discord bot written in Python, to allow you to submit HTML5 forms via Discord. I built the discord side.
- **YO! Sushi Price Calculator:** Mobile app that helps you add up the different colour plates in YO! Sushi. Originally written for Android but rewritten using the Flutter framework to support iOS and Android. Currently on Google Play.
- **hackSheffield 5 Discord Bot:** Discord Bot to send reminders and tell attendees the remaining time.
- **hack.athon.uk:** Maintainer for the UK Hackathon Wiki, built using Mkdocs, HTML, and CSS.
- **Hackathons for Schools Association Website:** Website built using Jekyll, HTML, and CSS.

Technology Community

- **Partnering** Hackathons for Schools Association with Durham University Computing Society, helping them get as many under 18s to DurHack:NextGen.
- **Judge** and **Mentor** at DurHack 2019.
- **Mentor** at hackSheffield 5.
- Running an **MLH Local Hack Day: Learn 2019** workshop at the University of Birmingham on Discord Bots in **Python**.
- Leading **Hackathons for Schools Association** to get more 15-18-year olds involved with hackathons, by helping schools run their own mini hackathons.
- Co-leading the University of Birmingham's **Developer Student Clubs**, running workshops at the university.
- Running **talks and workshops at secondary schools** about hackathons and why students should get involved. Workshops include discord bots, Pillow, PRAW.