

Robyn Heib

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Studied BSc (Hons) Computer Science at Manchester Metropolitan University. I have had a keen interest in programming since studying computing at school. I am particularly interested in applying for roles in Systems Programming, creating a platform for the user applications to utilise.

Key Skills

Programming Languages

- Completed two projects in Python for my GCSE Computing course and have attended many Raspberry Pi events.
- For my A-Level, I completed a project in VB.net for a local garden machinery repair company to allow them to stock spares and track each repair.
- For the first year of my degree, I completed a game project in Java using Processing's libraries for graphics. Doing this, I gained skills in object-oriented programming.
- Outside of education, I have learnt C/C++ and have used C to create small demos in ncurses. Ncurses is a Linux port of the Unix program curses, used for complex output in the console. I have also looked into graphics with OpenGL.
- C#, Creating data structures in the second year of my degree using the .NET framework as an interface.
- Lua, I have used this language to programme computers within games such as a mod for Minecraft called and Space Engineers.
- In my second year of university for Web Development, I created an e-portfolio using HTML5, CSS and JavaScript. I rebuilt this in an open-

source tool called Jekyll, which allows you to include standard aspects of your site that have been written in a separate folder to stop repeated code. The modular design helps in adding content quickly and make this into my website easily. <https://robynheib.com>.

- I have completed a year as an undergraduate software developer at Omnibus as my university placement. During this year, I completed tasks on the front and back end of their bus timetabling system.
- I have also had experience with scripting languages with Papyrus in Bethesda's game engine.
- GDScript is the main language for the game engine Godot. The language has a similar structure to Python. I have used Godot to create some game jam projects. I am currently making a Silent Hill style game.

Problem Solving

- Using problem-solving for my first year programming assignment (a fishing game), I had to design it elegantly to function well and didn't cause problems further down the line.
- I have also used problem-solving in my professional development project in my second year, where we had a project to set up a server using the ELK Stack and create dummy apps to test the system.
- I also used problem solving on my placement where I was given a bug and had to work out where the problem was by testing the program some more and placing break points.

Hardware/Networking

- I built a network for a local company. As their last one was 20 years old, I had to replace all the components in the network and redesign it.
- Chose components and built a computer for a local company. The business needed two computers to either be upgraded or replaced as they were still using vista. I chose one new PC for their specific requirements and upgraded the other PC.

- Server Setup from a group project in my second year using the ELK Stack with Apache and Jetty programs to test the setup.
- I also have a physical server tower at my residence, which I use to set up game servers to play private games with my friends and host my website.

Communication

- A few years ago, I completed my Explorer Belt, where you have to find hospitality in a foreign country and overcome the language barrier. We were dropped off in the Czech Republic and walked for ten days covering 100 miles to the far side of the country. This presented many challenges as I did not speak Czech, but I enjoyed all the new experiences, and it helped me improve my communication skills.
- I have taken part in Hackathons, in which I have gained skills in working with new people to create and develop a project in a set short period (usually 48hrs)

Leadership/teamwork

- While at University, I was the Vice-Chair of the Canoe Club. My job involved organising trips for the club and running weekly training sessions to introduce new people to the sport. All the committee have different roles, but we have to work as a team to organise club meetings and liaise with the Social Secretary to promote trips.
- The first-year Information and Security project was to design a database for a bike rental company and create the SQL statements. This project was a group project. We had to organise who was performing each task, monitoring the tasks everybody was completing. We scheduled weekly meetings, set up a group chat to communicate, and set weekly deadlines for each meeting to keep the project moving forward.
- In my placement year, I gained experience using Microsoft Teams and Microsoft project management tools. We used a sprint type system to discuss what tasks we would do for the next two weeks and update meetings every morning using Teams.

- Also, on my placement, I had to read and understand bug reports. None of the programmers sometimes wrote these in non-technical language. Resulting in further communication and questioning with the bug reporter and developing good working relationships with the broader company.

Education

- Sept 2017 – June 2021 Manchester Metropolitan University
 - BSc (Hons) Computer Science – 2:1
 - Modules: Professional Development, Advanced Programming, Algorithms and Data Structures, Computer Networks and Operating Systems, Programming, Computer Systems Fundamentals, Information Systems and Introduction to Web Design and Development
- Sept 2015 – June 2017 Holy Cross College
 - A levels - Computer Science (C), Physics (D), Mathematics (D)
 - AS levels - Physics (B), Mathematics (B)
- Sept 2010 – June 2015 Woodhey High School
 - GCSE's - Mathematics (A), Additional Science (A), Science (B), Computing (B), Food Technology (B), English (C), Geography (C), Religious Studies (C), Spanish (E).

Additional skills and interests

- I was a member of the MMU Computing Society and the subsidiary Hackathon Society; we attend a weekly meeting where we share skills and worked on small programming projects for fun.
- Meeting twice a week to play board games at DnF.
- An active member of Bury Canoe and Kayak Club, and paddle white water up to Grade 3 with the club.
- I am assistant Cub leader at 1st Ramsbottom Cubs, where I help out with camps and the occasional pack meetings.
- Currently hold a clean driving licence.

- Helping set up a housing coop for trans people in Manchester.

References available at request.