

Henry Russell

BSc Computer Science (Software Engineering)

An ambitious, highly motivated individual seeking a placement position to enable skills of problem solving, communications and leadership to be utilized. Excellent intercommunication skills with experience working in teams and interacting with clients including several freelance jobs. Passionate about creating accessible software that can be enjoyed by everyone.

🔧: Javascript, Python and Java utilizing : Jest, JUnit, Pytest, JavaFX, CSS/SCSS, HTML, socket.io, HTML-5 Canvas, NodeJS, Hugo, EmberJS, VueJS, ReactJS, Bulma, Webpack, Git, Font-awesome 5, ExpressJS, HapiJS, firebase, Docker and SQL.

Education

Royal Holloway University of London

- Third year student graduating in 2021
- Strong 1st class grade averages of 81% in first year (in top 20) Second-year average of 85%.

A Levels & GCSE

- Computer Science (A), EPQ (A), Psychology (A), Maths (B).
- 14 GCSE's A*-B. A* in Electronics. A's in Computing, Math's, English literature, language, and sciences.

Technical Experience

Full-stack web Developer:

- Actress portfolio with continuous deployment (wendyannedaloz.com) uses hugo and netlify cms and hosted with github pages. SEO Ranked on the first page google search.
- Multiplayer, concurrent game environment based around microservices and the cloud. Tools used include docker containers, HapiJS and socketio.
- Python API in React asset management dashboard.

Front-end web Developer:

- Custom portfolio website for an actress client.
- Carpark management system in React.
- HTML5 canvas games including Tower defence, chess, TicTacToe, and Rock Paper Scissors.
- Music visualiser for midi files (static album art).

Java Developer:

- JavaFX chess application with SQL-lite database for storing game history.
- Lego robot to scan an area for "landmines", collect them and return them to a checkpoint. Dry run testing.
- Test driven graphical and command line calculator using observer, factory, visitor and MVC design patterns.

Unix and deployment (DevOps):

- VPS hosting with AWS EC3 and Google compute.
- High experience with Linux (desktop and bash)
- Webpack configurations and plugins.
- Docker and Docker compose for the deployment of an asset management system on Heroku. Environmental variables used for ports and admin password.
- Microservices and container orchestration.

Work History

Computer Science Teaching Assistant | Royal Holloway | 2020– Current

Remote and in person support during lab sessions for first year modules and marking.

Student Ambassador | Royal Holloway | 2019– Current

Open days, Campus Tours, Carpark management, and roles in the computer science department.

Math and English Tutor | Kumon – Frimley, England | 2017– 2019

Tutored up to A level students in Math's and English, helped them to make corrections, documented progression.

IT And Marketing | VocaLink (Mastercard) – Hertfordshire, England | 03/2016

Week Placement, Shadowed meetings, Created Infographic for social media dept., Installed plasma screens for IT support dept.

Additional Skills and Achievements

- Google FooBar challenge completed up to level 3 (2020).
- LinkedIn JavaScript Assessment (2020).
- Inside Sherpa for JPMorgan Chase Virtual Experience Program in web Development (2020).
- Extracurricular club "programming polyglots", each week a new programming language was taught. (2017 - 2018).
- Excellent understanding of hardware and software. Skilled in Microsoft office; PowerPoint and Excel with ECDL cert.
- Public speaking in mock student elections and mock United Nations (pre 2018).
- Volunteering: Leader Japanese club and the Chess club (2017 - 2018). Student ambassador; Air cadet and Bronze DofE (pre 2018).

Hobbies/interests: CAD/CAM, Photography, Web Development, Podcasts, Psychology, Chess and strategic computer games, Japan.