

Henry Russell

Full Stack Software Engineer with a passion for Web

Work History

Web Software Engineer | Zühlke Engineering, London | September 2022 - Current

As a Professional Consultant, developed custom software solutions for various clients, including a web application for Handelsbanken, a Swedish bank. The web application helps clients who want to apply for a mortgage by collecting their financial information in a simplified and user-friendly way, used skills in typescript react to create the web interface for this project.

Academic Tutors Surrey | Computer science teacher | 2022-2024

A level computer science tuition for a homeschooled student as solo teacher.

Royal Holloway | Software Engineer Internship | 2021 Summer

Lead developer, student module selection web application interfacing with college systems.

Computer Science Teaching Assistant | Royal Holloway | 2020– 2021

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

Student Ambassador | Royal Holloway | 2019– 2020

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.

Education

MSc Software Systems Engineering

Achieved a Distinction classification from UCL (2021-2022) in software systems engineering, with a focus on distributed systems, requirements engineering, and software development practices.

Conducted a research project in collaboration with Intel and Microsoft, developing a coding plugin for Visual Studio that enables touchless computing using gestures as a mouse pointer for coding.

BSC Computer Science (Software Engineering)

First Class Honors, Royal Holloway University of London (2018-2021), grade average of 80%.

Academic awards:

Computer Science Prize for outstanding final year project (2021),

Best Second Year Software Engineering Group Project (2020)

Outstanding academic performance - 1 of 17 students who scored over 80% (2019)

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.*

Project Experience

Front-end web:

- Custom portfolio website for an actress client.
- Electron JS design thinking application for IBM
- Birthday cards and similar for friends
- Carpark management system in React.
- Various HTML5 canvas games.

Full-stack web:

- Actress portfolio with continuous deployment (wendyannedaloz.com). SEO Ranked on the first page google search.
- Multiplayer, concurrent game environment based around microservices and the cloud.
- React asset management dashboard with python API
- Module Selection system for students at Royal Holloway.

Java:

- 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.
- Test driven graphical and command line calculator using observer, factory, visitor and MVC design patterns.

Cloud and deployment:

- 2024 AWS Certified Associate Solutions architect
- VPS hosting with AWS, Azure and Google compute.
- Linux (desktop and bash)
- 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.