HAYLEY WING YIN KWOK

Software Engineer | Computer Science Student

CONTACT

📞 +44 07366 069044

✉ wingk1226@gmail.com

🌐 https://hayley-kwok.github.io/

in Hayley Wing Yin Kwok

@Hayley-Kwok

Pluralsight Profile

ABOUT ME

- Experienced in all aspects of the development cycle in websites and Windows applications
- 2+ years of programming experience
- Enthusiastic about technology

EDUCATION

Bachelor of Science: Computer Science with a Year in Industry
University of Sheffield, 2018 – Present
- First-Class Performance in Year 1 & 2

The Hong Kong Diploma of Secondary Education, 2018
- 7 Subjects graded 5**- 4, with 5** in Information and Communication Technology and 5* in Mathematics Compulsory Part
- UCAS Tariff Points: 146

TECHNICAL SKILLS

Programming Languages: C#, Python, Java, Haskell, Ruby

Web: HTML5, CSS, Bootstrap, JavaScript, Flask, Jinja2, Ruby on Rails

Others: MS Office, Git, Linux, WPF, Visual Studio, Azure DevOps, .NET Framework, .NET5, SQLite, MySQL, PostgreSQL, Agile Methodologies, Databases, Algorithm Design, Data Structures, Functional Programming and Object-oriented Programming concepts

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WORK & VOLUNTEERING EXPERIENCE

Junior Software Engineer
Certara UK Limited, Jun 2020 – Jun 2021
- Involve in full software development life cycle including design, validation, testing, CI/CD pipelines building and full customer support
- Work on projects to improve the Simulator's performance such as using lazy loading to reduce the software's start-up time by 20% and building code generation tool to replace the Fody package
- Experience in WPF applications development using the MVVM pattern, C#, .NET 5 and Azure DevOps Server

Web Developer
NotiFacts, Aug 2020 – Jan 2021
- Involved in the front-end development of the company's website using Bootstrap and HTML5 and back-end development using Python Flask

Software Engineering Virtual Internship
JPMorgan Chase & Co, Apr 2020
- Worked on financial analysis and data visualisation tasks using React, Typescript and Python

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COMPUTER SCIENCE RELATED ACTIVITIES

Second Place Winner
HackMed, Mar 2020
- Worked in a team of four to develop a web app within 24 hours to help

L A N G U A G E S

o Cantonese (Native)
o English (Proficient)
o Mandarin (Proficient)

R E F E R E N C E

o References are available on request

people suffering speech impairment using the Emotiv wearable EEG and the pepper robot
- Made use of React, Bootstrap and Python Flask to build the website
- Project Devpost Link

Student Mentor for a Python Course
Code Creators Sheffield, Oct 2019 – Jun 2020
- Helped to address students' questions in Python
- Developed skills in explaining technical concepts and delivering educational materials to laypeople in a simple and logical manner

Sir William Siemens Challenge, Nov 2019
- Built a lift system with a physical model and a virtual model on the website to display the provided data in 48 hours with six students from different engineering disciplines
- Responsible for data manipulation that developed the attention to details
- Project GitHub Link

LEADERSHIP ROLES IN UNIVERSITY

International Engineering Ambassador
University of Sheffield, Nov 2019 - Present
- Represented the Faculty of Engineering to promote the University to prospective students and answering their enquiries professionally

Treasurer
Sheffield Women in Computer Science Society, Apr 2019 – Apr 2020
- Worked with companies in the IT industry including Arm Ltd to promote the role of women within the industry
- Took up the responsibility to manage and monitor the financial account of the society

Academic Representative
University of Sheffield, Sep 2019 – Jun 2020
- Worked alongside the University and Students' Union to improve students' education
- Developed skills in collecting and presenting information better and communicating with people from different backgrounds

Projects

Software Hut (Group Web Project at University)
- Worked with three Computer Science students to build a website in agile with the use of Ruby on Rails and MVC pattern from design to deployment and testing for the School of Health and Related Research to replace the current ACCESS database for the clinical trials support management

OCR Project in University (Data Science Project at University)
- Built an optical character recognition system that can process scanned book pages and turned them into text using Python and Python packages like NumPy and SciPy (without using the scikit-learn module)
- The training process consisted of three stages: Dimensionality reduction (Feature Extraction), Classifier Training and Error Correction

Bombe Simulator (Individual Project at University)
- Made use of Haskell and functional programming design pattern to build a Bombe simulator to break the Enigma-machine-encrypted messages
- Project GitHub Link

Bank Statement Analysis Application (Personal Web Project)
- Built an application that analyses users' bank statement and displays the result through a web interface
- Built using Python, MySQL, Flask, Jinja2, Bootstrap, Web APIs and HTML5
- Project GitHub Link