Yijun Hu

MEng Computer Science | University of Warwick
Full stack java developer at PortSwigger

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📍 Manchester, UK   🌐 Projects Site: pro.yijun.hu ⬈

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INTRODUCTION

Developer at PortSwigger, shipping features for **Burp Suite Professional** and **Burp Suite DAST** that secure thousands of web apps worldwide. First-Class MEng Computer Science, University of Warwick; former private tutor and university TA.

Full-stack engineer fluent in **Java, Swing, Python**, React JS, also with **GraphQL** and ETL / **OpenTelemetry**, writing clean, high-performance code with a strong eye on UX. Works effectively in agile settings with close cross-functional teamwork. Hands-on with the latest **AI tooling and agentic coding workflows**, using them to boost delivery **without sacrificing quality**.

From Shanghai, China, grew up in the UK. Fluent in **English** and **Mandarin**, excited to tackle complex problems in both enterprise and start-up settings.

SKILLS

Problem Solving   Full Stack   AI   Java   Python   Kotlin   React JS   Tuition

EDUCATION

Masters of Engineering
10/2020 - 07/2024

University of Warwick, Coventry
Wide range of topics from neural networks to lambda calculus
Also see section: Projects ⬈

A Level (A* A* A* A*)
9/2018 - 06/2020

George Spencer Academy, Nottingham
Maths, Further Maths, Computer Science, Chemistry

I additionally have 10 GCSEs including Grade 9 in English and Maths.

WORK EXPERIENCE

Software Developer
09/2024 - Present

PortSwigger, Knutsford
- Built features for **Burp Suite Pro** and **Burp Suite DAST**, leaders in the web-app security market
- Full stack work in **Java**, **Swing**, **React**, **GraphQL**, and **Python**, delivering features in a collaborative, **agile** engineering team
- Focus on **clean code**, **performance**, **test-driven development** and **usability**
- Developed **ETL pipelines** and integrated **OpenTelemetry**
- Leveraged **AI tooling** and agentic coding for faster delivery *without* sacrificing quality
- Worked closely with security researchers, product design, and technical writers

Graduate Teaching Assistant
10/2023 - 06/2024

University of Warwick, Coventry
- Leading first year undergraduate labs in Computer Architecture and Functional Programming

AI Engineer
06/2023 - 08/2023

USense Data, Shanghai
Created an new AI service in Python Flask, focusing on Optical Character Recognition (OCR), with features including:
- automatic table transcription (image to spreadsheet)
- automatic business invoice digitisation
- ID card verification

Private Tutor, GCSE and A Level 08/2019 - 06/2023

Freelance

Tutoring Maths, Computer Science, and Chemistry

PROJECTS

OCR for Ancient Chinese Characters ↗

4th year project (First class)

Using optical character recognition to translate ancient Seal Script characters into Modern Chinese in real time

- Android app using local CNN models to translate seal script characters
- I was involved in data collection and model training with **PyTorch**
- Group project with 4 others

Generating Chinese Calligraphy with CycleGANs ↗

3rd year project (First class)

Generating Chinese Calligraphy Using Neural Networks

- Exploratory project training and comparing several CycleGAN architectures in **TensorFlow** for Chinese font transfer

LANGUAGES

English   Mandarin Chinese

OTHER INTERESTS

Typography and Design   Traditional Chinese Arts   Visualisation and Simulation   AI and Computer Vision

— I am a British Citizen with right to work in the UK —