

Alessio Wu (he/him)

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[LinkedIn](#) | [Portfolio](#)

Programming Languages:

Proficient: Java, Python

Intermediate: JavaScript, C++, Scala, SQL

Education

King's College London - BSc (Hons) Computer Science - First Class Honours

Sep 2020 - May 2023

Modules include: Software Engineering Group Project (Python, Django, React, 66%), Software Measurement and Testing (80%), Individual Project (Dissertation, Data Analysis, Python, 79%), Human-Computer Interaction (UI/UX Research, 68%), Programming Practice and Applications (Java, 81%), Data Structure (91%)

Software Engineering Experiences

Large Web Application Development - Group Project

Jan 2022 - Apr 2022

- Developed in Python and JavaScript a feature-rich movie club web application within an 8-member team, demonstrating strong collaborative skills.
- Gained exposure in the frontend environment by creating web pages with React, Figma and Material-UI.
- Improved group collaboration skills with Kanban board, ensuring timely task delivery and effective communication.

Pair Programming - Group Project

Feb 2021 - Mar 2021

- Developed driving and navigation skills through cooperating with a teammate on a Java project.
- Implemented inheritance in Java to improve coding efficiency and reduce code duplications.

Data Analysis Experiences

King's Undergraduate Research Fellowship (Internship) - Individual Project

Jun 2023 - Oct 2023

- Analysed remote sensing images raster data using Python, monitoring land use coverage change and greenhouse gas emissions in London over a 30-year period.
- Manipulated more than 5 raster datasets, covering tasks from setting up the data environment to generating Choropleth maps, Sankey diagrams and other informative visual results.

Dissertation - Final Year Individual Project

Sep 2022 - Apr 2023

- Acquired experience in data collection, cleaning, and analysis techniques, specialising in handling geographical data through Python libraries including GeoPandas, PySAL, statsmodels, mgwr.
- Researched on the impact of 6 socioeconomic factors to digital inequality through 4 data analysis methodologies, including Spatial Lag Model and Geographically Weighted Regression.
- Proposed 5 actionable suggestions to local governments and organisations for mitigating digital inequality, while also addressing critical literature gaps in the field.
- Presented the dissertation at the [Regional Studies Conference](#), a global gathering of academics and policymakers focusing on regional and urban research, development and policy.

UI/UX Research and Design Experiences

Flat Finding Web Application - Group Project

Jan 2023 - Apr 2023

- Conducted UX research by interviewing 25 individuals searching for flats online, empathising with users' needs and challenges. Analysed and coded the interviews to identify key problem statements.
- Conceptualised 18 features and developed an interactive flat-finding web application prototype using Axure, to enhance the user experience and efficiency in the flat searching process.

Skills

GitHub/Version Control, Django, HTML, React, Figma, Axure, Bootstrap, Material UI, Trello, Wireshark.

Qualifications

IELTS: 7.0 (2020) | UKMT: Bronze (2018 & 2019) | European Computer Driving Licence (ECDL) (2018)

Languages and Interests

Chinese Mandarin (native/advanced), English (fluent), Italian (colloquial) | Badminton, Cycling, Photography.