

Xixian Huang

Career Objective

Ambitious Master of Computer Science student with a background in Electrical and Electronic Engineering from Imperial College London, currently seeking internships in front-end development to build foundational skills in web technologies. My long-term goal is to become a full-stack developer, leveraging my growing expertise in software development to eventually work in fields such as robotics, IoT solution or R&D. I bring strong problem-solving abilities, adaptability, and excellent teamwork skills, with a passion for integrating technology into innovative solutions.

Technical Knowledge

- Web Development: HTML, CSS, React.js
- Programming Language: Python, JavaScript, MATLAB
- Software and Tool: Microsoft Office (Word, Excel, PowerPoint), LangChain

Education

Master of Computer Science **July 2024 – Present**
University of Wollongong, Wollongong, Australia

Master of Engineering (Integrated Electrical and Electronic) **September 2018 – June 2023**
Imperial College London, London, United Kingdom
MEng Hons 2.1 degree

Academic Projects

Capstone Project | Research in Robust Portfolio Optimisation **October 2022 – June 2023**
Imperial College London, London

- Individual project focusing on researching and implementation of robust optimisation model.
- Conducting comprehensive research on portfolio management strategies, focusing on optimising investment approaches using the DR-MAD model.
- Using MATLAB to analyse large datasets, refine financial models, develop and implement advanced algorithms for enhancing portfolio performance.
- Compiled detailed analytical reports and presented complex financial insights to audiences from different backgrounds.
- Obtained a model which yields higher Sharpe Ratio comparing to traditional optimisation model in finance.

Technical Consultant | Industry-Supervised Group Project with ARM **December 2021 – May 2022**
Imperial College London, London

- Collaborated with ARM to develop a tech solution focused on speaker recognition, employing data analysis and algorithmic research.
- I work as a liaison with client, ensuring completed understanding of client's need through active listening and discussing, providing tailored solutions, drafting analysis reports, and conducting presentations to diverse audience.
- I coordinate with inter-disciplinary teams, integrating software model into hardware components.
- Utilized Python for data cleaning, pre-processing, and implementing deep learning model ResNet under the framework of TensorFlow. Implementing cloud storage of model in IoT device using AWS.
- Successfully developed a model with 99.98% accuracy in noise free condition and 97% under IoT device.

- Led a team in developing a digital monitoring system aimed at optimising energy use in plant growth.
- My duty was to design and implement circuit systems and collaborate closely with team members responsible for app development using Android Studio, gaining valuable insight into front-end development processes and how software interacts with hardware components.
- Adapted project strategies during the Covid-19 pandemic, transitioning to remote work protocols and maintain team productivity through virtual collaboration.
- Successfully developed a functional prototype that optimised energy efficiency in plant growth by 15%, receiving positive feedback from academic evaluators.

Volunteer Work

Pulse Volunteer

August 2024 – Present

UOW Pulse, Wollongong, Australia

UOW Pulse is the student engagement and services organisation at the University of Wollongong, dedicated to enhancing student life through events, activities, and support services. I volunteered to connect with campus community and gain event management experience. My duties included organising and managing campus events, coordinating wellness programs, and assisting in event logistics.

Volunteer

January 2021 – September 2021

Jianggao Nursing House, Guangzhou, China

Jianggao Nursing House is a community-based elder care facility in China, providing essential services and support to elderly residents. I choose to volunteer here is to give back to my community and help the organization to overcome logistical challenges during the Covid-19 pandemic. My responsibilities involved managing inventory, coordinating virtual events for residents, and improving inventory tracking systems to enhance operational efficiency.

Personal Attributes

- **Strong Problem-Solving and Data Analysis Skills**, as demonstrated during my capstone project where I conducted research on problem area, utilized advanced algorithms and data analysis techniques to tackle complex financial modelling challenges.
- **Effective communication skills** proven through my role as a consultant in the industry-supervised project with ARM, where I communicated complex technical findings clearly to clients and team members.
- **Teamwork and collaboration** practiced through my volunteering experience, where I collaborated with a diverse team in organise and manage events.
- **Adaptability and Flexibility**, as demonstrated through ability to adapt project strategies and work remotely during the Covid-19 pandemic while leading the project. I quickly adjusted to new collaboration tools and virtual meetings, maintain team productivity despite unexpected challenges.

Certification

AWS Certified Cloud Practitioner

Amazon Web Services (AWS) | Issued Apr 2024

Websites

GitHub: <https://github.com/heyinwong>

LinkedIn: <https://www.linkedin.com/in/xixianhuang/>

References

Available upon request.