Xingzhi Qian

Email: felixqianxz@gmail.com — Telephone: (+44) 07999096821— LinkedIn: xingzhi-qian

Github: github.com/Felixqxz — Portfolio: felixqxz.github.io — Address: 3 Merchant Square, London, United Kingdom

Education

- **Imperial College London** — London, United Kingdom
  MEng Computing (Artificial Intelligence and Machine Learning) — *September 2019 - June 2023*

  Relevant Courses: *Software Engineering Design, Algorithm Design and Analysis, Operating Systems, Databases, Machine Learning, Artificial Intelligence, Computer Vision, Probability and Statistics, Linear Algebra*

Work Experience

- **Bafta Media Technology** — London, United Kingdom
  Software Developer Intern — *May 2022 – September 2022*
  - Built Bafta View TV app on Amazon FireTV Stick and deployed to Amazon store with Android Studio and React based on APIs from web app
  - Maintained accessibility across various video platforms that supports better experience for audience to watch via TV app. Implemented extra functionalities on Bafta View Web app using React

- **Shanghai Ximalaya Technology** — Shanghai, China
  Software Engineer in Test Intern — *May 2021 – August 2021*
  - Automation of API testing using python and pytest by comparing actual results with expected results from MySQL databases. Queried and produced test data with MySQL, covering 80% cases
  - Conducted API testing using Charles and Postman, manual functional testing, smoke testing, regression testing and compatibility testing with different mobile devices

- **Changshu District Media Convergence Center** — Changshu, China
  Technical Intern — *July 2020 – September 2020*
  - Extracted article contents from newsletter website chronologically using Selenium & Beautifulsoup in python
  - Formatted and uploaded news to Official Accounts on WeChat, achieving over 1000 views weekly

Projects

- **E-Commerce Website** — Individual Project
  Angular, Java, Spring Boot, MySQL, TypeScript — *June 2022 – August 2022*
  - Built up an e-commerce website with a shopping cart, keywords filtering, and ensuring web security using JWT, OAuth2
  - Developed a Spring Boot back-end using REST APIs and implemented processing credit card payments with Stripe API

- **Butterfly Annotator** — Imperial College London
  Vue.js, Python, Flask, SQLite, HTML/CSS — *September 2021 – December 2021*
  - Collaborated in team of 6 online to create GUI for annotating terms in butterfly descriptions to regions in butterfly images and deployed to Heroku
  - Enabled user draw random polygons on canvas to manually select regions. Supported user-login and set different permission levels (admin, viewer, editor) to users at back-end
  - Designed the function that automatically generates possible keywords and improve annotation efficiency by 65% in large butterfly datasets

Publications

- **Machine Learning on Cataracts Classification Using SqueezeNet** — Massachusetts Institute of Technology
  IEEE UV 2018 — *July 2018 – August 2018*
  - Came up with the idea from volunteering in ophthalmology department
  - Generated and applied data augmentation to preprocess data for labeled datasets, and trained model with transfer learning using Keras and TensorFlow
  - Used SqueezeNet, a deep neural network with fewer parameters, on cataracts classification, achieving accuracy on test data at 96.1%

Skills

- **Languages:** Proficient in Java, Python, SQL, JavaScript, HTML/CSS; Familiar with TypeScript, C, Haskell
- **Frameworks:** React.js, Angular, Vue.js, Spring, Flask, TensorFlow, PyTorch
- **Software & Tools**: Git, Docker, CI/CD, Gradle, Maven, MySQL, Heroku, Atlassian (Jira, Confluence)