Xingzhi Qian

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Education

- **Imperial College London** — London, United Kingdom
  MEng Computing (Artificial Intelligence and Machine Learning) — *September 2019 - June 2023*
  Relevant Courses: *Machine Learning, Artificial Intelligence, Software Engineering Design, Algorithm Design and Analysis, Operating Systems, Databases, Computer Vision, Probability and Statistics*

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, maintaining remote controls functionality across various video platforms (Disney, Sony, etc.) that supports better experience for audience to watch via TV
  - Implemented extra functionalities on Bafta View Web app using React and improved accessibility on keyboard controls
  - Worked on customised colour scene in php and JavaScript
- **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, covering 100% cases
  - Queryed and produced test data with MySQL
  - Conducted API testing using Charles and Postman, manual functional testing, smoke testing, regression testing and compatibility testing with different mobile devices
  - Shared technical skills in group: Git, HTML, JavaScript, CSS, Vue.js
- **Changshu District Media Convergence Center** — Changshu, China
  Technical Intern — *July 2020 – September 2020*
  - Formatted and uploaded news to Official Accounts on WeChat
  - Developed QR code generator as a Chrome extension with Javascript
  - Extracted newsletter contents chronologically using web crawlers (Selenium & Beautifulsoup) in python

Projects

- **Butterfly Annotator** — Imperial College London
  Software Engineering Group Project — *September 2021 – December 2021*
  - Collaborated in team of 6 online to create GUI for annotating terms in butterfly descriptions to regions in butterfly images
  - Implemented front-end using Vue.js with bootstrap, enabling user draw polygons on canvas to manually select regions
  - Used Flask and SQLite at back-end and designed the functionality that can automatically generate possible keywords and set different permissions (admin, viewer, editor)

Publications

- **Machine Learning on Cataracts Classification Using SqueezeNet** — Massachusetts Institute of Technology
  IEEE UV 2018 — *July 2018 – August 2018*
  - Used SqueezeNet, a deep neural network with few parameters, on cataracts classification that can help ophthalmologists diagnose different types of cataracts with images, achieving accuracy on test data at 96%
  - Generated and applied data augmentation to preprocess data for labeled datasets, and trained model with transfer learning using Keras and TensorFlow
  - Came up with the idea from volunteering in ophthalmology department and finding it took ophthalmologists time to diagnose different types of cataracts

Skills

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