

# 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:** 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)