

# Xingzhi Qian

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## Education

### Imperial College London

*MEng Computing (Artificial Intelligence and Machine Learning)*

London, United Kingdom

*September 2019 - June 2023*

**Relevant Courses:** Software Engineering Design, Algorithm Design, Operating Systems, Databases, Machine Learning, Computer Vision, Natural Language Processing, Statistics, and Linear Algebra

## Work Experience

### Bafta Media Technology

*Software Engineering Intern*

London, United Kingdom

*May 2022 – September 2022*

- Built Bafta View TV app on Amazon FireTV Stick and deployed to Amazon store with Android Studio to support desired display effects
- Improved accessibility across various video platforms and implemented extra functionalities on Bafta View Web app using React.js and JavaScript
- Launched Bafta Nucleus and designed customized color themes to improve user experience

### Shanghai Ximalaya Technology

*Software Engineering in Test Intern*

Shanghai, China

*May 2021 – August 2021*

- Designed and implemented a feature to automatically test 12 APIs, which covered 80% cases, and deployed the feature to the existing data pipeline
- Coordinated 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

*Software Engineering Intern*

Changshu, China

*July 2020 – September 2020*

- Extracted article contents from newsletter website chronologically using Selenium & BeautifulSoup in Python to analyze popular trends on topics
- Produced and formatted news to Official Accounts on WeChat, achieving over 1500 views weekly

## Publication

### Machine Learning on Cataracts Classification Using SqueezeNet

*IEEE UV 2018.8642133*

Massachusetts Institute of Technology

*July 2018 – August 2018*

- Analysed 420 sets of data to classify Cataracts, a serious eye disease, affecting over 20 million people worldwide
- Configured data augmentation to preprocess data and trained SqueezeNet with Transfer Learning, using TensorFlow
- Achieved accuracy on test data at 96.1%

## Projects

### EverBest Shop Web App

*Angular, Java, Spring Boot, MySQL and TypeScript*

*June 2022 – August 2022*

- Built up an e-commerce website with keywords filtering, complete checkout forms and reliable web security, using JWT and SSL, to help customers early select and purchase products
- Developed a Spring Boot back-end, using REST APIs, and implemented credit card payments with Stripe API

### Butterfly Annotator

*Vue.js, Python, Flask, SQLite and HTML/CSS*

*September 2021 – December 2021*

- Led a team of 6 people to create a Web App with GUI for annotating terms in butterfly descriptions to regions in butterfly images and deployed to Heroku
- Managed to enable user manually select regions by drawing polygons on canvas, and promoted to set different authorizations (admin, viewer, editor) to users
- Designed the keyword generator, which improved text annotation efficiency by 65% in large butterfly datasets

## Skills

**Languages:** Proficient in Java, Python, SQL, JavaScript and HTML/CSS; Familiar with TypeScript and C

**Frameworks:** React.js, Angular, Vue.js, Spring, Flask, TensorFlow, PyTorch and Keras

**Software & Tools:** Git, Docker, CI/CD, Gradle, Maven, MySQL, Heroku and Atlassian (Jira, Confluence)