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 to support desired display effects via TV
- Maintained accessibility across various video platforms and implemented extra functionalities on Bafta View Web app using React and JavaScript
- Helped on Bafta Nucleus with designing customized color themes to improve user experience

Shanghai Ximalaya Technology — Shanghai, China
Software Engineer in Test Intern — *May 2021 – August 2021*

- Automation of API testing using python by comparing actual results with expected results from test data queried and produced from MySQL database, 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
Software Developer 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 keywords filtering, complete checkout forms 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 polygons on canvas to manually select regions at front-end and supported setting different permission levels (admin, viewer, editor) to users at back-end
- Designed generating possible keywords function and improved text 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)