

Yun Feng

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EDUCATION

Northeastern University Sept. 2021 - Dec. 2023(Estimated)
Master of Science in Computer Science Vancouver, BC
Related courses: Mobile Development, Web Development, Distributed System

South China University of Technology Sept. 2016 - July. 2020
Bachelor of Engineering in Software Engineering Guangzhou, Guangdong
Related courses: Data Structure and Algorithms, Database System, Operating System, Computer Network

WORK EXPERIENCE

Ansys Aug. 2022 - Dec. 2022(Estimated)
Incoming Software Engineer Intern Vancouver, BC

- Work alongside software developers during the design, implementation and verification process of the Icepak product. Implement new features using **C++**.
- Investigate defects in production code. Develop unit and regression test using **Python**.

SciQuel—Harvard University Innovation Lab Feb. 2022 - June. 2022
Software Engineer Intern Boston, MA

- Co-led a group of eight to build a mobile app using **React Native/JavaScript** which offers scientific articles and podcasts for non-technical audiences. Offered quizzes to deepen the user's understanding of the article.
- Collaborated with UI/UX design team to design, build test and improve the application.
- Created custom **React Native** components for internal framework. Built multiple navigators and navigation bars.
- Used **Axios** to query data from the back-end server.
- Applied **Express** as the back-end framework and **MongoDB** as database. Built **RESTful** APIs to query data.

PROJECTS

RecipeGo | *TypeScript, React, Express, MongoDB, Mongoose, HTML/CSS, MUI, AWS, Docker, Auth0*
[\[Website\]](#) [\[GitHub Repo\]](#)

- Developed a web app using **React/TypeScript** in which users can search, upload, favorite and comment on recipes, and view recipes by category.
- Built the backend server using **Express/TypeScript**, and implemented multiple **RESTful** APIs to query data.
- Used **MongoDB** and stored it on **MongoDB Atlas**. Applied **Auth0** to authenticate users and protect APIs.
- Deployed the front-end server on **Vercel** and the back-end server on **AWS Elastic Beanstalk**.
- Used **Jest** to test both the front-end and the back-end; used **react-testing-library** to test the front-end components.

Car Maintenance App | *Java, Javascript, Solidity, SpringBoot, React.js, HTML/CSS, Blockchain, Travis CI, Circle CI, CodeFactor, Tencent Cloud*

- Developed a web app using **React** in which authorized repairers can record and view vehicle maintenance information, and car owners can query vehicle maintenance records and transfer vehicles by the frame number.
- Created a **Consortium Blockchain** using **FISCO BCOS** platform and **Solidity** to avoid tampering.
- Used **SpringBoot** to build the backend and deployed it on **Tencent Cloud**.
- Applied **Circle CI**, **Travis CI** for monitoring, unit and automated testing, applied **CodeFactor** for code review.

RESEARCH EXPERIENCE

Action Recognition Neural Network | *Python, PyTorch, LSTM, VGG, CNN*

- Designed an unsupervised process to extract keyframes and optical flow for action videos and converted them into feature maps using **VGG**.
- Created an **LSTM** neural network with convolution kernels to classify action videos using **PyTorch**.
- Achieved a **92%** 3-Fold Accuracy on **UCF-101** action recognition dataset.

TECHNICAL KNOWLEDGE

Languages: Java, JavaScript, TypeScript, C/C++, Python, HTML/CSS, SQL, Solidity
Front-end: React.js, React Native, Bootstrap, EJS, jQuery, Jest, react-testing-library
Back-end: Express, Node.js, MongoDB, Mongoose, MySQL, SpringBoot, Firebase, RESTful, GraphQL, Auth0
Others: Git, AWS, GitHub Action, Circle CI, Travis CI, PyTorch, Numpy, Pandas, Sklearn, CoLab, Postman