Yongjie Xue

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Education

University of Nebraska-Lincoln Sep. 2022 - May 2024
Master of Science in Computer Science (GPA: 3.858/4) *Lincoln, NE, USA*
University of Shanghai for Science and Technology Sep. 2019 - May. 2022
Master of Engineering in Control Science and Engineering *Shanghai, China*

Experience

Siemens Shanghai Medical Equipment Ltd Aug 2021 – April 2022
Software Engineer Intern *Shanghai, China*
- Led the development and successful implementation of an innovative user interface using the PyQt5 framework, integrated with the Tobii API. This work facilitated contactless operation in a laboratory setting and introduced a new standard for user interaction in scientific environments.
- Collaborated with the Quality Assurance Department to develop Python-based Automated Packaging Software, achieving a 90% reduction in software packaging and release time, significantly improving the department's workflow.
- Independently designed and executed a deep learning model to enhance the quality of medical images. This model, when integrated into the mobile C-arm pipeline, resulted in a 20% improvement in image quality, contributing to advancements in medical diagnostics and imaging techniques.

Projects

Little Lemon Restaurant (Front-end) | *React.js, HTML, CSS, JSX, Figma*

- Created the user interface for a restaurant website based on the layouts designed in **Figma**.
- Developed a responsive website using **React.js** to ensure a seamless user experience across all platforms.
- Utilized React **Router** for navigational components to enable efficient page transitions within the single-page application architecture.
- Crafted dynamic user interfaces by integrating **JSX** with **CSS** to enhance interactivity and visual appeal on the website.

Employee Management System (Fullstack) | *React.js, Tailwind, MongoDB, Django*

- Developed an employee system where users can sign in, sign up, post, search, and deployed the system on Vercel.
- Designed user interfaces with **React.js** and **Tailwind**, used React Router to navigate to different pages.
- Implemented authentication with **JWT** and created auto-refresh tokens to ensure the effectiveness of passwords.
- Built the back-end system with Python, designed and managed **RESTful APIs** with **Django**.
- Utilized **PyMongo** to execute CRUD operations on **MongoDB** Atlas.

Technical Skills

Languages: Python, JavaScript, C++, SQL, TypeScript
Developer Tools: Git, React.js, Django, Postman, GraphQL, Jest, TensorFlow, PyTorch
Concepts: Software Development, Software Testing, Website development, Computer vision, Artificial Intelligence, Machine Learning, Neural Networks, Edge Computing
Certification: Meta Front-End Developer

Publications

Xue, Yongjie, et al. "CoMap: Proactive Provision for Crowdsourcing Map in Automotive Edge Computing." IEEE International Conference on Communications, 2023.
Xue, Yongjie, et al. "AdaMap: High-Scalable Real-Time Cooperative Perception at the Edge." IEEE/ACM SEC , 2023.