Yelin Liu

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Github: https://github.com/lawrence415610

PROFESSIONAL SUMMARY

Full-stack **developer** and enthusiastic **researcher** adept at creating playful applications that achieve innovative ideas. **1 year+** Australian working experience and **3 years+** working experience in the architecture industry. Received **full scholarship** from Wollongong University. Published one conference paper in IEEE/ACM. **Project Manager** of the MTKeras Project.

Works:

- Agilo: https://agile-project-manager-tawny.vercel.app/

- City Weather: http://yelin-weather-app.s3-website-ap-southeast-2.amazonaws.com/

- Portfolio: https://yelinliu.com/

- MTKeras: https://github.com/lawrence415610/Mtkeras/

TECHNICAL SKILLS

Front End: React.js, React hook, React-spring, React storybook, React router, Redux.js, Redux Devtool, Javascript ES6/ES7, HTML5, CSS3, CSS grid, flexbox, LESS, SCSS, SASS, JQuery 3x, npm 6x, nvm, yarn, Bootstrap 4x, Ajax, axios, Material Design, Ant Design, Responsive Design, Webpack, Gulp, Babel, ESLint, moment.js, lodash.js, date-fn.js, etc.

Testing: Jest, Jasmine, Mocha, Selenium

Back End: C#, Node.js, Koa.js, Express.js, YAML, JSON, python, Django

Database: NoSQL, MongoDB, MySQL, Mongoose.js

Architectures: RESTful APIs, Microservices

Design: Photoshop, Illustrator, Sketch, Premiere, Final cut, Cinema 4d, Axure, After Effects, Flinto, Principle, Keynote

Cloud Services: AWS S3, AWS EC2, Google Cloud, Alibaba Cloud, Oauth2.0, Heroku, ZEIT, firebase

Develop Tools & Platforms: Github, Github Team, Jira, Postman, Invision, Slack, Trello, Asana, Vscode, Webstorm

Methodologies: Agile, Scrum, Kanban, TDD, Waterfall

Data analysis: python, numpy, pandas, matplotlib, Jupyter notebook, anaconda, Selenium

AR/VR/Game Development： Unity 3D, Vuforia

WORK HISTORY & PROJECT EXPERIENCE

WEB DEVELOPER INTERN | 04/2020 to current
JR Academy - Sydney, NSW

Project Agilo (project link: https://agile-project-manager-tawny.vercel.app/)

- Use **Asana, Slack, Github Team** as the agile scrum tool and participate in agile development team collaboration.
- Use **React.js**, **React hook**, **React Storybook** to create reusable front-end components.
- Use **Redux**, **Redux Devtool**, **React router, Redux thunk, React-redux** to compose the components into single page application.
- Use **Node.js** and **Koa.js** framework to make the application backend. Write **CRUD** function for the **RESTful API**.
- Develop the project on **Linux Ubuntu 16.04** operating system.
- Use **ZEIT** to deploy the project.

Project City Weather (project link**:** https://yelin-weather-app.s3-ap-southeast-2.amazonaws.com/index.html)

- Write **React component** to create reusable front-end components.
- Use Open Weather and Unsplash **RESTful API** to fetch data.
- Use **Material Design** icons to decorate the single page application.
- Use **AWS S3** to deploy the project.

RESEARCH ASSISTANT | 04/2019 to 04/2020
University of Wollongong - Wollongong, NSW
Project MTKeras (https://www.youtube.com/watch?v=Egjn0FffJjU)

- Create and manipulate multimedia digital content by using image manipulating tools (**Adobe Photoshop, Illustrator**, **Indesign**) and video editing tools (**Adobe Premiere**) for academic presentations and websites.
- Use **HTML5**, **CSS3**, and **JavaScript ES6** to build interfaces for academic websites.
- Use **Selenium** to conduct security test on multiple websites, for research activities.
- Create a testing framework using **Python** for metamorphic testing.

Project METWIKI (http://www.metwiki.net/)

- Assist senior researchers in developing proposals and strategies for web-based interactive items, multimedia digital products and APP appliances for academic usage.
- Monitor the operation of in-use contents to detect and diagnose the limitations and deficiencies.
- Test, examine and generate adjustments to correct errors and enhance the performance of computer programs.
- Conduct research activities, including data collection and database management.
- Collaborate with other specialists in the network and IT-related industry to discuss and analyze any issues detected during design, development and operation stages, such as website security, website backup, and recovery.
- Participate in upgrading and refurbishing established quality control policies, work and safety standards, and test protocols to accommodate the fast-changing environment and users' needs.
- Work with drawings, sketches to adjust the design of products in the artistry and visualization aspect by modifying programming and scripting languages.
- Keep up-to-date with interactive technologies and web-based methodologies.

ARCHITECT | 10/2011 to 4/2016
ShenZhenZhongTai Design Institution - Nanchang, China

- Designed multimedia presentation by using **Photoshop, Illustrator** and **Indesign**.
- Communicated with clients from different backgrounds

EDUCATION

University of Wollongong - Wollongong, NSW | Master of Philosophy
Computer Science, Expected in 12/2020

- Received **Faculty Scholarship**
- Received **International Postgraduate Tuition Award**

Monash University Caulfield Campus - Caulfield East, VIC | Master of Design
Interaction Design

- Coursework in **UX/UI design**, **web development**
- Member of Australian Computer Society

Nanchang University North Area - Nanchang | Bachelor of Architecture
Architecture

AWARDS

International Postgraduate Tuition Award
2019-2020 University of Wollongong

Engineering and Information Science Faculty Scholarship
2019-2020 University of Wollongong

RESEARCH ACTIVITIES

Contributed on METWIKI database (http://www.metwiki.net/)   2019.4 – 2019.12
- Collaborated with the research team in Wuhan University and build the METWIKI database for metamorphic relation research.
- Contributed 50% of the data input.
- Assisted database development, and web development.

Open-sourced the MTKeras framework (https://www.youtube.com/watch?v=Egjn0FffJjU)   2020.4
- Developed a testing framework for machine learning applications.
- Conducted research on metamorphic testing.

Published the conference paper (https://www.researchgate.net/profile/Yelin_Liu2)   2020.5
- Collaborated with the researchers from Swinburne University of Technology, booking.com, and the University of Wollongong to accomplish the conference paper.

Submitted the presentation talk on Mtkeras(preview)
(https://www.youtube.com/watch?v=Egjn0FffJjU)   2020.6

Prepare for a journal paper on metamorphic testing   current

REFEREES

Zhi Quan Zhou – Associate Professor
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Lightman Wang – Founder & CEO at JR Academy
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