Josiah(Jinyu) Wu

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Objective: Full-Time Software Engineer

EDUCATION

University of Wisconsin - Madison   *Madison, WI*
Bachelor of Science Computer Science   *2018.09 - 2020.05*
- GPA: 3.44/ 4.0
- Graduation Date: May, 2020
- Coursework: Algorithm, Operating System, Software Engineering, Mobile System and Application, AI

Edmonds Community College   *Lynnwood, WA*
Java Developer Certificate   *2015.06 - 2017.12*
- GPA: 3.7 / 4.0
- On-Campus Jobs: student's most favorable programming tutor and computer lab assistant

SKILLS

- **Programming Language:** HTML, CSS, JavaScript, Node.js, Java, Python, C, PHP, SQL
- **Framework:** jQuery, Express, React, React Native, Redux, Electron, SASS, Bootstrap
- **Development Tool:** Git, Vim, Bash, Visual Studio Code, Docker, Travis CI, Webpack

EXPERIENCE

UW-Madison IoT Systems Research Center   *Madison, WI*
Software Engineer Intern   *2019.12 - Present*
- Modularized Python and R algorithms implemented by PhD students so other engineers can import packed algorithms into their programs as a library.
- Packed Python and R algorithms into a Docker container to allow clients to run them without Python and R environments installed on the machine.
- Implemented a Node.js Docker engine application programming interface so other engineers can program JavaScript to manipulate Docker client easily.
- Developed a PC application with graphical user interface and integrated algorithms implemented by PhD students into the application to enable clients to run algorithms with just several clicks.

Morgridge Institute for Research   *Madison, WI*
Software Engineer Intern   *2019.04 - 2019.12*
- Accelerated data recovery process by 90% and resulted in rescuing over 40,000 invalid data records for scientists.
- Perfected the front end page of the lab information management system in CSS and HTML to improve scientific research efficiency for scientists.
- Developed a gene analyzer software in Node.js that can parse massive data from NCBI web pages and analyze the relationship between gene and body size for scientists.
- Batched lab database queries using Python and Elasticsearch so query time was reduced from 60s to 9s.

Yomojoy   *Xiamen, Fujian*
Software Engineer Intern   *2017.06 - 2017.08*
- Executed and contributed to mobile app development projects, with an emphasis on front end features, browser manipulation, and cross-browser compatibility.
- Rebuilt the user interface using MUI, HTML, CSS, and JS so the customer can remotely operate electronic mosquito killer much easier compared to the old version.
- Connected front end UI components to Giwits IoT Cloud Service API to enable human device interaction.

PROJECT EXPERIENCE

MadMap   *Madison, WI*
Project Lead   *2018.09 - 2019.02*
- Clarified the goals and objectives of each discussion and improved the overall strategy through integration valuable aspects of each team member
- Developed a CSS framework in Sass and grid component to assist front-end developer in building responsive web page for Madison Map project.
- Designed and implemented the front-end pages using single page application principle to reduce the HTTP request so the server load can be greatly reduced.
- Built fully functional backend in NoSQL and Node.js to enable the interaction between backend and front end pages.