

SHENGYUAN WANG

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<https://www.linkedin.com/in/shengyuanwang1/> | Available Time: from March 2023 to May2024 | Relocate available

Education

Macalester College | Junior

Sept. 2021 – May.

2024

Major: Computer Science & Mathematics GPA: 4.0 | Major GPA: 4.0

Course: Python, Java, Parallel and Distribute Processing, Algorithm, Software Design, Discrete Optimization, Differential Equation

Skills

- Language: R, Python, Java, Go, C/C++, SQL, PHP, JavaScript
- Database: MySQL, Oracle, MongoDB, XML Query, Neo4j, Redis
- Tools: AWS EC2, Docker, Jupyter, Git, Flask, Linux
- Other: NumPy, Pandas, Latex, Vue, HTML5, CSS, jQuery, Shell, NodeJS, Angular

Work Experience

NetEase Games

Front-End Developer

May. 2022 – Sept.2022

- Design and deliver mobile NetEase Music browser feeds and competition activity web application
- Contribute to team's component library: encapsulated Toast and Modal components with customized hooks
- Optimized team's Webpack scaffold, resulting in reducing CSS bundle-size by 35% and time deduction for CICD
- Participate in React 18 upgrading plan and run a demo with React Server Components, reducing 30% FTP web vitals in the experimental grey testing environment.

Federation International of Robot Sports Association (FIRA)

System Developer

Oct. 2020 - Present

- Designed competition registration and score-recording system backend with PHP and MySQL, supporting current data flow of over 2000 user usage and score-recording of all 43 competition categories
- Constructed concurrency-safe network flows and remote servers with LAMP for online competition during Cov19
- Worked with tables from Oracle/MySQL/PostgreSQL database with Python, Performed cleansing operation on data generated from web logs with automated scripts in Python
- Parsed XML documents using Python Scripts and load into database.
- Daily PostgreSQL database maintenance and Worked on back-end and front-end feature.

Project

Full-Stack React Notes Application

Oct.2022

- Constructed a Full stack React Notes application and deployed it with AWS Amplify
- Created a Git-based continuous integration/continuous deployment workflow for the notes web application with serverless backends by AWS Amplify
- Utilized Amazon Cognito by Amplify CLI to add authentication service
- Implemented front-end with React, created and deployed GraphQL API that leverages AWS App-Sync, backed by Amazon DynamoDB, to develop the notes application, supported image storage services with Amazon S3.

Ion-Imaging Camera System

Feb. 2022

- Developed a system that can control iXon EMCCD camera and pretreat the original dataset
- Designed an organized structure by UML and implemented the User Interface by C# and WinForms.
- Assigned an image pre-processing library with C++ and OpenCV that can do simple Morphology processes.
- Compared to the industrial user interface, reduced the image capture time from 5s to 0.2s.