Merlin Zhao

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SKILLS

Languages: Python, Javascript, Typescript, Java
Technologies: React, Vue, Node, HTML, CSS, MySQL, Redis, REST, Google Cloud Platform, Jenkins, Docker, Kubernetes, Git

PROFESSIONAL EXPERIENCE

Zoom New York, NY
Software Engineer *Aug 2022 - Feb 2023*

- Significantly enhanced Python RESTful API for *Zoom Phone* by implementing robust and scalable user authorization protocols and user data management systems, seamlessly supporting 4000000+ users
- Improved data access schemas using AWS managed Redis caching and MySQL databases, reducing response time by 25%
- Created clear and concise software documentation, including 19 test cases and 4 technical design documents, that effectively conveyed the analysis, planning, and proposed solution of projects
- Collaborated with 3 cross-functional teams, including UX/UI designers, back-end engineers, and project managers in the architectural planning of a new critical feature, promoting knowledge sharing and establishing acceptance criteria

IBM Toronto, ON
Software Developer *May 2021 - Aug 2022*

- Overhauled CI/CD pipelines using Kubernetes, Docker, and Jenkins, reducing React application deployment time by 25%
- Designed 40 multi-platform end-to-end tests with Appium and Jest, eliminating 65% of manual testing
- Established parallel pipelines in Jenkins and reallocated sever loads, improving reliability and reducing automation runtime by 15%
- Enhanced React Javascript codebase; refactoring 40+ components, addressing SonarQube errors, reducing code complexity
- Conducted Node and dependency upgrades for 5 repositories, ensuring proper code functionality through regression checks
- Revised 9 technical and onboarding documents to include updated coding languages, softwares, and algorithms, which provided clear and contextualized codebase information while streamlining knowledge transfer to new hires

AMD Toronto, ON
Software Engineer *May 2020 - Apr 2021*

- Maintained and managed team's automated regression testing system in order to triage and visualize 150000+ lines of logs; built with React, Javascript, Python and Perl scripts, and a MySQL database in Google Cloud Platform
- Thoroughly improved Python scripting performance by optimizing algorithms, reducing runtimes from 12+ hours to 5 mins
- Responsible for MySQL database administration and optimization, increasing query performance by 20%

Menlolab Inc. Hamilton, ON
Frontend Developer Intern *May 2019 - Aug 2019*

- Expanded interactive web elements to visualize large data sets of 10000+ rows using Vue and the D3 library
- Implemented Javascript data type validation, error and edge case handling in 16 methods, reducing client-side downtime by 45%

PROJECTS

Rapid Pass Wireless transit payment prototype

- Managed 4 engineers in the process of conceptualizing prototypes for new public transit payment methods. Oversaw testing and implementation while maintaining strict deadlines
- Crafted and deployed a React web application along with a scaleable RESTful API built upon Node and Express
- Designed a MySQL database hosted by Google Cloud in order to store 7000+ rows of user and transactional data
- Created Python scripts to generate test data for MySQL database, saving 90% of manual data entry time. Incorporated a variety of data generation techniques to create realistic and diverse datasets that accurately reflect real-world scenarios

www.merlinzhao.me Personal portfolio coded from scratch

- Developed a responsive and adaptive personal portfolio website using Vue, showcasing my skills to potential employers
- Utilized reusable components, state management, and directives, creating a seamless experience for mobile, tablet, and desktop
- Successfully integrated Google Analytics, providing valuable insight into website traffic, audience behavior, and performance

EDUCATION

Bachelors of Computer Engineering **McMaster University**