

Wenxin Wang

Objective: Available for a Software Engineer position

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SUMMARY

2+ years software engineer expertise in PHP development. Passionate implementing and improving PHP APIs and web applications on time in a fast paced and agile environment. Experienced in SQL, PHP, JavaScript, jQuery, HTML5, CSS3, HTTP, data structures, Object-Oriented and algorithms design. Master's degree in Software Engineering and bachelor's in Computer Science. Quickly learning cutting-edge technologies and a team player.

WORK EXPERIENCE

Software Engineer (PHP) Jun 2017 - Present
Florida Youth Rugby Union, Naples, Florida

- Re-design HTML and URL infrastructures for a non-profit organization on search engine optimization (SEO)
- Ensure data-availability and performance of the platform utilizing WordPress, PHP, and SQL queries
- Learn Amazon Web Services (AWS) Cloud, Python to prepare for another data-driven application for clients

Full Stack Software Engineer May 2016 - May 2017
Shenzhen Communication Tech Co., Ltd., Shenzhen, Guangdong, China

- Involved in full development lifecycle, developing a paperless resource management application which improves batch data processing efficiency by 25% for the company and enables PHP Excel data analysis APIs
- Collected and analyzed stakeholders' requirements from various fields and designed enterprise resourcing planning (ERP) web applications by UML diagrams in Visio and data structures in phpMyAdmin
- Designed user-friendly fully-featured user interfaces by Laravel framework, PHP, HTML5, CSS3, JavaScript, jQuery, considering web security aspects such as HTTPS, password encryption and SQL injection. User interfaces sample: <https://wenxinwang.github.io/Internship/internship.html>
- Implemented a service-oriented architecture(SOA) utilizing MySQL + phpMyAdmin + Apache+ WAMP
- Tested designed test cases by PHPUnit testing framework and released the application in 3 months

Research Assistant Oct 2015 - May 2016
Society for Industrial & Applied Mathematics, ERAU, Daytona Beach, Florida

- Produced a credible fault tolerance model for an autonomous underwater vehicle fleet, verified and validated simulation models to aid in navigation decision-making, saving 15% on state machines test cost
- Simulated vehicle communities and navigation behavior patterns utilizing C++ and Bash Scripting on Linux platform with MOOS-IvP middleware
- Executed UPPAAL checker tool to verify logic of state machine models by running 3000 sample cases
- Wrote research dissertation and development tracking reports, and presented a public speech
- Dissertation retrieved from: https://wenxinwang.github.io/Portfolio/Research%20Paper_Wenxin%20Wang.pdf

PROJECTS

Unity 3D UAV Flight Control Game Aug - Dec 2016

- Implemented A* path algorithms to avoid obstacles for virtual UAV flight control scenarios in Unity 3D
- Realized three dimensional map terrain utilizing C#, JavaScript, and 3D map data from terrain.party
- Presented a public speech and recorded a video demo: https://www.youtube.com/watch?v=p_Fo8txUBbY

System Exploitation and Penetration Testing Jan - May 2016

- Debugged critical problems on real-time system exploits troubleshooting on Kali Linux virtual machine
- Explored vulnerabilities which may disrupt system infrastructure's integrity within minimal time
- Tested in-house monitoring tool such as Metasploit, Meterpreter, networking port scanning tool nmap and networking protocol analyzer Wireshark using Bash and Shell Scripting

Web-based Project Repository Development Aug - Dec 2015

- Planed, installed, implemented, operated and maintained system application infrastructures of a Student Software Project Repository System in a 5-member Agile Scrum team utilizing PHP + SQL + HTML + CSS
- Ensured up-time software engineering support utilizing Apache, Hive and Git version control on Linux system
- Automated operations of multiple systems such as OS X and Windows that were constantly updating data
- Project Code: <https://github.com/WenxinWang/SE500>

Digital Forensics Aug - Dec 2015

- Performed system infrastructure analysis of networking and file system data storage on Kali Linux system
- Deployed virtual machine, networking protocol analyzer Wireshark, and digital forensics tools such as Autopsy to detect system networking performance and obtained hands-on experience of file system infrastructure
- Documented and reported the vulnerabilities found during the test processes

PUBLICATION & RESEARCH PAPER

- Yue S., Mi L., & Wenxin W. (2015, March) *Software Reliability Prediction Approach Based on UML Activity Diagram*. Retrieved from http://en.cnki.com.cn/Article_en/CJFDTOTAL-JSJA2015S1128.htm
- Wenxin W. (2017, Aug) *Use MOOS Middleware to Simulate and Formal Methods to Verify the Fault Tolerance of Collaborative Autonomous Underwater Vehicles*. Retrieved from: https://wenxinwang.github.io/Portfolio/Research%20Paper_Wenxin%20Wang.pdf

EDUCATION

Master of Engineering: Software Engineering GPA: 3.59
Embry-Riddle Aeronautical University (ERAU), Daytona Beach, Florida Aug 2015 - Aug 2017

- **Honor:** International Student Achievement Scholarship, 2015 - 2017: Strong academic achievements
- **Courses:** Software Disciplines, Object-Oriented Design, Quality Assurance, Software Requirement Analysis, Software Architecture, Security Assessment, Software Exploitation and Penetration Testing

Bachelor of Science: Computer Science and Technology GPA: 3.78
Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China Aug 2012 - Jun 2016

- **Honor:** Outstanding Student Minor Award Scholarship, Nanjing University of Aeronautics and Astronautics
- **Courses:** Data Structures, Algorithms Design, Database, Operating System, Assembly, Compiler, Digital Circus, Electronic Circus, Object Oriented Programming Languages, Computer Composition Principles

SKILLS

Programming Languages: PHP, HTML5, CSS3, Javascript, C, C++, C#, Git, UML, Java
Sever-side Languages: XAMPP, HTTP, Apache, PHPUnit Test, LAMP
Database: SQL, MySQL, phpMyAdmin, NoSQL, SQL Server, SQL injection
Operating System: Linux, C-Shell, Bash, Shell Scripting, Windows, OS X
Frameworks: Zend(PHP), Jquery, Prototype, Laravel(PHP)
CMS: Joomla, Drupal, WordPress, search engine optimization (SEO)
Others: Markdown