

WENXUAN XIA

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Looking for a full-time Software Developing Engineer opportunity in 2017

🎓 EDUCATION

Purdue University, West Lafayette, IN 2015 – Present
Master candidate in Industrial Engineering. **Already full credits, expected Dec. 2016**, GPA 3.62
Direction: Simulation Algorithm Design and Programming

Zhejiang University Chu Kochen Honors College, Hangzhou, China 2011 – 2015
Bachelor of Science in **Computer Science**, GPA 3.49

👨‍💻 EXPERIENCE

Psychology Department, Purdue University, West Lafayette, IN May. 2016 – Present
PHP Developer - <http://www.characterinventory.org/>

- Optimize database queries, increase maximum number of concurrent users by 50 times at least.
- Enhance server security by using prepared queries, which prevent SQL injections.
- Use dynamic salt to encode password, which ensures security of users' information.
- Using Bootstrap to make pages friendly to smartphone users.
- Using D3js to visualize interactive graph, which displays data intuitively.

Personal Blog System, Self-Project Feb. 2016 – May. 2016
Full-Stack Web Developing - <http://www.wenxuan-xia.com>

- Used Python-Django to customize blog writing system, which makes easier for users to manage blogs.
- Used mark-down language to display blog content to allow editor create a beautiful and clear blog.
- Blog is packed as an application in Django, which allows developers to extend their own applications.

RCODI, Purdue University, West Lafayette, IN Oct. 2015 – Mar. 2016
Web Innovation Assistant - Web developing marathon technical judge

- Enhanced online Q&A system using ajax to accomplish real time communication.
- Evaluated more than 50 competitors code and give feedback timely to keep competitors engaged constantly.

DataVisualization Project, Purdue University, West Lafayette, IN April 2015 – May 2015
Data Visualization Developer - <http://alone-all-life.github.io/>

- Used Javascript and D3js to visualize given data, which makes data expressive.
- Deployed website online and used Facebook Comment Plugin to collect users' feedback.

SENKEN Group Co., Ltd, China May 2015 – July 2015
Server-end developer - Real-time information and geo-position sharing system for police hand-hold equipment

- Developed message-sending-fetching api using CodeIgnitor php, making devices communicate with the server.
- Using 3NF to design MySQL database structure to reduce redundancy and accelerate query speed.
- Designed data exchange synchronizing protocol based on timestamp, which ensures synchrony of messages on server and devices.

EagleLab, Zhejiang University, Hangzhou, China Sep. 2013 – Apr. 2014
Research Assistant - Develop a efficient way to crawl most of templates from specific websites

- Designed an algorithm to compare differences between pages, which makes algorithm time cost $O(\text{number of tags})$.
- Developed Multi-thread web crawler, which increases crawler speed by 10 times.
- Used skipping strategy to crawl pages, which get 97% of templates by crawling only 10% pages.

⚙️ SKILLS

- Programming language: Java(proficient), Python(proficient)
- Web developing: PHP(fluent), JavaScript, HTML5, CSS3, MySQL
- Frameworks or libs used: Django, BeautifulSoup, CodeIgniter, Bootstrap, D3js, JQuery, Numpy
- Platform and version control: Mac OS X, Linux, Git