

# Yali (Ellie) Wang

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## Full Stack Software Engineer

Database Systems / Web Technologies / Strong User-facing Coding Experience

### PROFILE

Full Stack Software Engineer with a solid foundation in computer science, and with strong competencies in data structures, algorithms, software design, databases, networking and user interface. Real-world experience building user-facing interfaces to solve enterprise business problems. Self-taught programmer via online courses and independent projects in languages such as Java, JavaScript, PHP, Python and C, with ability to quickly learn others. Working knowledge of scalable computer architectures, databases, and web applications.

### EDUCATION

**MS – Electrical Engineering**, New York University **GPA: 3.57** 2017

- Relevant Coursework: Java, Data Structures & Algorithms, Databases, Computer Networking

**BS – Electrical Engineering**, Zhengzhou University **GPA: 3.2** 2014

### SKILLS

- **Programming**: TypeScript, JavaScript, Java, Python, C, Bash, PHP
- **Web Technologies**: Laravel, REST API, JSON, MySQL, SQL
- **Front-end Development**: HTML5, CSS3, JavaScript, Angular, Bootstrap
- **Tools**: Linux, Apache Tomcat, Apache, Git, Eclipse, Visual Studio, Atom
- **Networking**: SDN, TCP/IP, DNS, HTTP, DHCP, OSPF, RIP, NAT

### WORK EXPERIENCE

**Full Stack Software Engineer: Glopak USA**, New York, NY Aug 2017 – Present

*Collaborate with technical team developing PHP-based ERP software for enterprise client. Software manages inventory, CRM, order, finance, and human resources.*

- Identified clients' needs and thoughts about the software design; determined the functions, features and UI of the software using the experience of software development.
- Designed backend database structure using **Laravel** framework and **MySQL** on **Apache** Server; programmed **CRUD** operations using **REST API** in **PHP**.
- Designed powerful search engine function in **REST API**; allows user to search products using several requirements.
- Created friendly and interactive UI using **Angular4**, **HTML5**, **CSS3**, **Bootstrap** and **TypeScript**.
- Maintained and managed **MySQL** database using **MySQL Workbench** during the development of the software.
- Used the version control tool such as **Git** to merge and manage codes.

**Software Engineer Intern: Huahang Technology**, Zhengzhou, China July 2014 – Dec 2014

*Created Java-based webpage that shows all company's products and collects feedback.*

- Architected backend database structure for showcase webpage using **Java** and **MySQL** on **Apache Tomcat**.
- Programmed **CURD** functionality using **REST API** in **Java**.
- Developed search function for the user to search and display products' information using **Java**.
- Built showcase frontend UI to show all products and collect customers' information in **HTML**, **CSS**, and **JavaScript**.

### INDEPENDENT DEVELOPMENT PROJECTS

2017

#### Mario Game Design Using Java

- Accomplished design of programs and classes using **object-oriented design** in **Java**.
- Programmed function allowing Mario to move, jump, and run to avoid obstructions using keyboard.
- Solved problem that different objects are running synchronously using **multithreading** in **Java**.

#### Web Crawler Design for Collecting Users' Information Using Python

2016

- Designed algorithm for Web Crawler to traverse all web pages and avoid loops.
- Implemented **TCP socket**, created corresponding **HTTP** header, and managed **cookies** using **Python**.
- Matched specific users' information using **regular expression**.