

# Zhuoyue Wang

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science

Minor in Computational Science and Engineering

Dean's List, James Scholar, City Scholar, Data Science Certificate

May 2019

GPA: 3.98/4.00

## WORK EXPERIENCE

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### Software Engineer Intern

Trustwave

August 2018 – Present

Chicago, IL

- Build out dashboards in **Kibana** and **Elastic search** for the Compliance Business Unit that can be used in the customer showcase area
- Use **C++** to write the PutFiles and HashingContent processors and endpoint modules on **MiniFi**

### Research Assistant

Text Information Management and Analysis Group

August 2018 – Present

Champaign, IL

### Software Engineer Intern

China Construction Bank

June 2018 – July 2018

Guangzhou, China

- Used Java to add attributes in the Analysis and visualization module for customer transaction data

### Research Assistant

National Center for Supercomputing Applications

June 2018 – August 2018

Champaign, IL

- Trained test and prediction models on student's learning behaviors in the Open University Learning Analytics Dataset in **Python**.
- Use **Keras** and **TensorFlow** to train the neural networks, **Pandas** for handling data, and **scikit-learn** for cross-validation and evaluation.

### Course Assistant

University of Illinois at Urbana-Champaign

January 2018 – May 2018

Champaign, IL

## PROJECT EXPERIENCE

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### Ticket+: Java Web Service Development – Event Search and Ticket Recommendation

- Developed an interactive web page for users to search events and purchase tickets (**HTML**, **CSS** and **JavaScript**)
- Improved personalized business recommendation based on search history and favorite records

Back End:

- Created **Java** servlets with **RESTful APIs** to handle **HTTP** requests and responses
- Built relational and **NoSQL** databases (**MySQL**, **MongoDB**) to capture real business data from **Yelp API**
- Designed algorithms (e.g., content-based recommendation) to implement business recommendation
- Deployed server side to **Amazon EC2** to handle 150 queries per second tested by **Apache JMeter**

Front End:

- Designed an interactive web page utilizing **AJAX** technology (**HTML**, **CSS** and **JavaScript**)
- Developed an **Android** mobile app for users to search nearby businesses based on locations

### Hermes: a Spring and Hibernate based Ordering system

- Built a web application based on **Spring MVC** to support item search and listing (dependency injection, inversion of control, **REST API** etc.)
- Used **Spring Security** to implement **OAuth2** based authentication
- Utilized **Hibernate** to provide better support of database operations
- Developed a **Spring Web Flow** to support item ordering

## LEADERSHIP

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### Chinese Engineering Student Association

Director of Technology

Champaign, IL

August 2017 – March 2018

- Guide the development and maintenance of official website in Wordpress
- Collect and analyze the data for the club's **Android** APP in **Java**

## SKILLS

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**Programming Languages:** object-oriented design using **Java**, web development using **HTML**, **CSS**, **JavaScript**; statistical analysis using **Python**; database operation using **SQL**

**Databases:** relational databases (**Oracle**, **MySQL**) and NoSQL databases (**MongoDB**)

**Computer Science:** data structures and algorithms; object oriented programming; system programming; distributed systems design and development (MapReduce)

**Data Science:** mathematics, statistics and probability; supervised and unsupervised machine learning models; natural language processing; data warehousing and mining