Zhuoyue Wang

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EDUCATION

University of California, Berkeley — Berkeley, CA
Master of Engineering in Electrical Engineering & Computer Science — *August 2019 – May 2020*
Concentration in Data Science and System

University of Illinois at Urbana-Champaign — Champaign, IL
Bachelor of Science in Computer Science — *August 2016 – May 2019*
Minor in Computational Science and Engineering — **GPA: 3.91/4.00**
  University Honor, Dean's List, James Scholar, City Scholar, Data Science Certificate

WORK EXPERIENCE

Software Engineer Intern — *June 2019 – August 2019*
Wayfair — Boston, MA
- Add new search logic and UI feature to view active assignments for scene selection in Fast Lane Dashboard to support over 400 fast lane users to increase efficiency using **SQL**, **React** and **PHP**
- Deprecate JJID from Backend processes and UI and add Versioning to Manufacturer Header Brands to support Fast Lane to get accurate status on over 500,000 scenes by **SQL**, **React** and **PHP**

Software Engineer Intern — *January 2019 – May 2019*
NextCapital — Chicago, IL
- Upgrade 15 internal gems and their dependencies in Rail and Vault servers and write testing files for updates in **Ruby on Rails**
- Build find-persona UI to support the find-workplace-plan and write the persona-model-search function with **React** and **Ruby** for internal testing on financial planing models

Software Engineer Intern — *August 2018 – December 2018*
Trustwave — Chicago, IL
- Implement the LogCollection and HashContent processors in **C++** on the **Apache MiNiFi framework**
- Use **MySQL** and **LogStash** to process compliance and PCI database and build out customer showcase dashboards in **Kibana** and **Elasticsearch**
- Integrate **Apache MiNiFi**, **Apache Kafka**, **Elasticsearch** and **Kibana** to provide real time streaming analytics on files

Research Assistant — *August 2018 – December 2018*
Text Information Management and Analysis Group — Champaign, IL
- Use **Python** to improve Automated Essay Scoring System by implementing deep learning frameworks on **Keras** and **Tensorflow** to increase 12% model accuracy

Research Assistant — *June 2018 – December 2018*
National Center for Supercomputing Applications — Champaign, IL
- Use **Python** to train test and prediction models on student's learning behaviors in virtual study environment
- Implement **Keras** and **TensorFlow** to train the neural networks and semi-supervised models, **Pandas** for handling data, and **scikit-learn** for cross-validation and evaluation

PROJECT EXPERIENCE

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 databases (**MySQL**) 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**)

LEADERSHIP

Chinese Engineering Student Association — Champaign, IL
Director of Technology Division — *August 2017 – March 2018*
- Guided the development and maintenance of official website in **HTML**, **CSS**, **JavaScript**
- Built **MySQL** database to collect the laundry machines' data and use **Java** to analyze for the club's **Android** mobile App

SKILLS

Programming Languages: Java, C, **C++**, Ruby, PHP, AJAX/**HTML**/CSS/**JavaScript, React**, **Python, SQL**, Shell, R
Tools: Apache Tomcat, MAMP, Eclipse, JUnit, JMeter, Android Studio, Postman, **MySQL**, Amazon EC2, Git, RESTful, **ElasticSearch**, Kibana, Apache MiNiFi, Apache Kafka, Ruby on Rails

Courses/Skills: data structures and algorithms; object oriented programming; system programming; Android App design; linear algebra, statistics and probability; database system; machine learning models; natural language processing; data mining