

# Haozhe Wang

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## EDUCATION

### University of Toronto

Master of Engineering in Electrical and Computer Engineering | GPA 3.90

Courses: Algorithms, Data Structures, Databases, Cloud Computing, Computer Security, Machine Learning, Blockchain

Sep 2021 - Apr 2023

Toronto, Canada

### University of Wisconsin - Madison

Visiting Student in Electrical and Computer Engineering | GPA 4.00

Courses: Computer Engineering, Electrical Engineering, Embedded System, Circuits, Power Electronics

Jan 2019 - May 2019

Madison, United States

### Northeastern University

Bachelor of Engineering in Control Science and Engineering | GPA 3.42

Courses: Control Theory, Embedded System, Computer Architecture, Control System, Computer Vision, Computer Security

Aug 2017 - Jun 2021

Shenyang, China

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, C#, C, HTML/CSS, JavaScript

**Frameworks:** Flask, Spring, MySQL, PostgreSQL, Bootstrap, Tensorflow, Pytorch, Numpy, Pandas

**Tools:** Git, Linux, AWS, Azure, VS Code, IntelliJ IDEA, Pycharm, VS, Anaconda, Postman

## EXPERIENCE

### Baowu Steel Group Corp

Software Engineer Intern

Jul 2019 - Aug 2019

Nanjing, China

- Developed the web application to enhance user experience using **HTML/CSS** and transformed the website backend systems to optimize stability and security using **Java/Spring Boot**.
- Engineered remote industrial facility operations and maintenance models to forecast equipment fault by leveraging industrial process sensor data and **Tensorflow**.
- Quality assured the industrial cloud data management system thoroughly to obtain errors and administered fixes to improve the overall system performance.

## PROJECTS

### Shopme E-Commerce App | Java, Spring, Bootstrap, RESTful API, MySQL, AWS

- Utilized **Spring** to build an online shopping application, that provides a login system, product management, order tracking, customer reviews and checkout confirmation functionalities.
- Created interactive and user-friendly web pages using **Bootstrap** and **jQuery**.
- Designed and deployed responsive and scalable applications to AWS using EC2, RDS and S3.

### Mini Pinterest Web | Python, Flask, Bootstrap, MySQL, AWS

- Constructed a full stack web application that allows users to browse, upload, save, delete, search by names and share images using **Flask**.
- Implemented **Memory-Caching** on server to speed up image fetching, allowed administrators to monitor the server status and switch cache replacement policies.
- Built an **Auto-Scaler** component to automatically resize the memory cache pool based on the configurations set by administrators to reduce server resource consumption.
- Designed flexible, scalable and reliable applications and deployed to AWS EC2, RDS, S3 and CloudWatch.

### Stock Investment Portfolio Management Web | Python, Flask, AWS Serverless

- Utilized **Flask** to build an application allowing users to browse stock quotes, manage personal investments and calculate real-time benefits online by synchronizing with Nasdaq stock market APIs.
- Implemented a completely serverless architecture by using AWS **Lambda**, **DynamoDB**, **API Gateway** and **S3**.

### Bank Account Management System | Java, MySQL

- Developed a bank account management application to handle customer requests of deposit, withdrawal, transfer and account transaction flow check.
- Implement savings interest growth via synchronization with Yahoo Finance APIs.