Wentao Zhou

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Education

University of Illinois Urbana-Champaign <div align="right">Expected: Dec. 2024</div>

Master of Computer Science

University of Toronto <div align="right">Sep. 2018 – June 2023</div>

Honours Bachelor of Science in Computer Science

- GPA: 3.73/4.0 & Dean's List Scholar 2019-2021
- Teaching Assistant of 10+ students for course Programming Language in Fall 2022
- Related Coursework: Scalable Programming, Software Engineering, Web Development, Database Management, Data Structure & Algorithm, Computer Networks, Operating Systems, Deep Learning, Computer Vision

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL, C, Racket, Haskell, PHP
Frameworks: React, Node.js, Flask, Express.js, Spring Boot, MyBatis
Technologies: GIT, Selenium, Docker, Flutter, Firebase, AWS, Postman, Jenkins, JIRA
Databases: MySQL, PostgreSQL, Neo4j, MongoDB, Oracle Database, Cassandra, Redis

Professional Experience

System Analyst <div align="right">Toronto, ON</div>

Community Services I&IT Cluster, Ontario Ministry of Education <div align="right">May 2021 – April 2022</div>

- Maintained the Ontario Student Assistance Program (OSAP) website, a financial aid program serving over 400k students across Ontario
- Resolved over 70 defects and implemented various new features per quarter using **Java JSF**
- Developed over 50 automated **Selenium** test scripts for rollover projects from the previous year to ensure the functionality and reliability of the website and admin application before releasing them to the public
- Integrated **MyBatis** framework for automated mapping between the **Oracle database** and **Java** objects

Projects

R/place

- Developed a scalable online canvas website based on Reddit r/place using **HTML**, **Node.js** and **AWS** frameworks
- Implemented a high-performance server backend with **AWS CloudFront**, **EC2**, and **Elastic Load Balancer (ELB)** to ensure real-time canvas updates and efficient broadcasting, which enhance the user experience
- Automated project deployment seamlessly with **AWS CloudFormation**, leveraged **ElastiCache Redis** for efficient caching, and managed project folder storage and database storage using **S3** and **DynamoDB**

Hex

- Collaborated with a team of 5 to develop an intellectual group formation platform for professors to form assignment groups based on requirements, as well as students' personalities, team roles, and feedback
- Designed and implemented a feedback page using **React** and **JavaScript** that enables students to provide and view post-assessment feedback, which was used to enhance future group formation through our backend model
- Developed an invitation feature using **Python** that allows professors to upload a CSV file with student information, triggering automated invitation emails to students' email addresses

Signify

- Led a team of 4 to develop a real-time sign language translation mobile app using **Flutter** and **Python**
- Awarded the **Google Solution Challenge** 2022 Worldwide **Top 10** Award
- Project video submitted by "Google for Developers" YouTube Channel: youtu.be/XwFkx-PG1b0
- Implemented core app functionalities, including essential camera features, user registration/login, and settings, to enhance user experience and overall functionality
- Utilized **Flask** for backend database connection and integrated **Firebase** for user account and history storage