

Zhechun Zhou

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EDUCATION

Carnegie Mellon University *Aug 2020 – May 2022*
M.S. in Information Technology (GPA: 3.37)

University of Wisconsin-Madison *Sep 2018 – May 2019*
Exchange Program in Computer Science (GPA: 3.67)

The University of Sydney *Feb 2016 – Jun 2020*
B.S. in Computer Science & B.E. in Computer Engineering (WAM: 74.2)

PROFESSIONAL EXPERIENCE

Wisecar Group *Sep 2021 – Nov 2021*
Full Stack Web Developer Intern

- Used Golang to develop a secure RESTful backend system with two-factor authentication and encrypted file transaction features allowing companies to store and access vehicle information.
- Used React.js and latest Redux Saga middleware to develop a fault tolerant web-based dashboard to visualize and process vehicle usage logs.

UW-Madison Database Group *Dec 2019 – Feb 2020*
Research Assistant

- Developed and fine tuned a multi-head self-attention machine learning model (Picket) to detect anomalies in tabular data.
- Published on: doi.org/10.1007/s00778-021-00699-w

Wisconsin HCI Lab *Jun 2019 – Aug 2019*
Research Assistant

- Developed a web portal using Unity and C# simulating the interaction between passengers and a guidance robot in an airport scenario allowing researchers to perform machine learning in these use cases.
- Implemented Firebase cloud storage and WebSocket full-duplex communication channel achieved handshake between the portal and the backend machine learning algorithms

ACADEMIC PROJECTS

Web based Social Media with Video Chat feature *CMU, 2021 Sem1*

- Used Django implementing a twitter-like social media web-site with real-time post update feature
- Used WebRTC and PeerJs to achieve video chat room feature allowing 2-4 user to meet online. **Graphic Dashboard of Bettering the Evaluation and Care of Health** *USYD, 2019 Sem2*
- Prepared and summarized medical records in the BEACH database with Pandas and MySQL to reduce redundancy.
- Visualized geographic data as map on a web-based dashboard with Spring, Echart and Leaflet

more projects can be found on my personal webpage www.zhechundemo.com

SKILLS

Programming: Golang, Java, Python, TypeScript, C++, C, C#
Backend: Gin, Gorm; Spring, Springboot; Django
Web Frontend: React.js, Redux Saga
Tools & Framework: **Database:** MySQL, PostgreSQL, MongoDB, Hadoop, Spark
Cloud Computing: Amazon EC2, Amazon S3
Others: Docker, Git, Gradle, Maven

PUBLICATIONS & AWARD

- T. Picket: guarding against corrupted data in tabular data during learning and inference
The VLDB Journal (2021). doi.org/10.1007/s00778-021-00699-w
- Vice Chancellor's Global Mobility Scholarship *The University of Sydney, 2019*
- Young Asian Leaders Scholarship *Carnegie Mellon University, 2020*