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
- Utilised Golang to develop a RESTful back-end system with Multi-Factor Authentication and AES-256 encrypted file transaction features allowing companies to store and access vehicle information securely.
- Designed and constructed administration interface with Failure-atomic transaction feature using React.js, Redux Saga, and TailwindCSS for customers to visualize and process vehicle usage logs like track records and fuel usage.

UW-Madison Database Group [Conference link] *Dec 2019 – Feb 2020*
Research Assistant
- Developed and fine tuned a multi-head self-attention machine learning model (Picket) to detect anomalies and recover corrupted in tabular datasets. Such a model achieved above 80 points AUROC across various noise and ML models.

Wisconsin HCI Lab [demo link] [code link] *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.
- Deployed the system on website and experimented it using AWS Mturk and collected data from 56 participants.

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 BEACH database *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 web-page www.zhechundemo.com/projects

SKILLS

Programming:	Golang, Java, Python, TypeScript, C++, C, C#
Backend:	Gin, Gorm; Spring, Springboot; Django, Google RPC
Web Frontend:	JQuery, React.js, Redux Saga, Tailwind CSS
Tools & Framework:	**Database & Big Data:** MySQL, PostgreSQL, MongoDB, Hadoop, Spark, Firebase
	Cloud Computing: AWS EC2, AWS S3, AWS ECS, Google Spanner, Google Domains
	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*