Yijie Shi

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EDUCATION BACKGROUND

University of Michigan Ann Arbor

M.S. in *Computer Science and Engineering* *GPA: (4.0/4.0)* Aug. 2022 - May. 2024 (Expected)

Relevant Coursework: Advanced Artificial Intelligence, Algorithms, Natural Language Processing, Foundations for Artificial Intelligence, Advanced Compiler, Database management System, Programming Language

B.S.E. in *Computer Science* *GPA: (3.81/4.0)* Graduated May. 2022

Relevant Coursework: Applied Machine Learning, Intro Distributed System, Computer Vision, Intro Machine Learn, Intro Oper System, User Interface Dev, Web Systems, Intro to Computer Organization, Intro Comp Security, Data Structures and Algorithms

WORK EXPERIENCE

Software Engineer Co-op (part-time) | Nokia Deepfield | Ann Arbor, MI Sept.2023 - Dec.2023
Software Engineer Co-op (full-time) | Nokia Deepfield | Ann Arbor, MI May.2023 - Aug.2023

- Migrated API endpoints from Tornado framework to FastAPI with schema check enabled
- Implemented API endpoints supporting paginated data list query with parameters limit and offset
- Wrote automated test suite for back-end functionalities

Grader of EECS448 Human-Centered ML | University of Michigan Jan.2023 - Apr.2023
Web Application Developer Intern | Shanghai Software Center Dec.2019 - Feb.2020

PROGRAMMING SKILLS

Languages: C++, Python, C, Javascript, Go, HTML, CSS, SQL, Matlab
Framework: Pytorch, VueJS, ReactJS, Node.js, Flask, Bootstrap, jQuery
Tools: Git, Wireshark, Docker, AWS, Bash, Postman, VSCode

PROJECTS EXPERIENCE

Physical Action-Effect Prediction Oct.2022 - Dec.2022

Objective: Implementing a system to predict outcome (image) given action (text)

- Crawled action(verb-noun pairs) and corresponding images from different search engines (bing, google)
- Dealt with the problem of noisy data through bootstrapping cross-entropy loss
- Implemented the system with both CNN and transformer and compared the result

Paxos-based Key-Value Service Jan.2022 - Apr.2022

Objective: Implementing a Replicated State Machine to support concurrent RPC requests from clients

- Designed a sharded key-value system and the configuration of servers
- Implemented the three stages of proposal and ensured the consistency
- Tested the system with edge case and tried to reduce latency and improved the reliability

Let's go out Web Application Nov.2021 - Dec.2021

Objective: Design web user interface to help people team up for nearby sports activities

- Applied mapbox API to get map data of nearby exercising places
- Used Vue.js to implement functions such as join, quit, choose location, rate person and review
- Implemented the sign up and sign in functions for users to create their profile

Instagram Website Simulator Feb.2021 - Mar.2021

Objective: Implementing an Instagram clone with client-side dynamic pages, Flask and SQLite

- Applied Rest API and React components to support functions such as login, post, comment, like, follow
- Deployed and maintained the website on Amazon Web Service (AWS)