Jun Cha

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Education

University of Wisconsin - Madison, College of Letters and Science   **Madison, WI**

B.S. Computer Science and Data Science   *Exp. May 2024*

GPA 3.65

- **Relevant Coursework:** Operating Systems (C), Intro to Artificial Intelligence (Python), Algorithms, Matrix Method in ML, Object-Oriented Programming (Java), Discrete Mathematics
- **Awards/Recognition:** Dean's List (2020,2021)

Professional Projects

AI-driven Patient Portal Enhancement with Epic   **Madison, WI | Sep 2023 - Present**

- Collaborating on the development of an AI-powered web plugin to distill complex health information for patients
- Working within an agile team framework, proactively identifying potential issues and brainstorming solutions
- Employing JavaScript and TypeScript for integration with an AI model, and conducting comprehensive testing within Epic's MyChart patient portal

Directed Study in Data-Centric AI   **Madison, WI | Sep 2023 – Present**

- Leading an independent study on data-centric AI under Prof. Kangwook Lee's guidance, emphasizing the exploration of large language models and their methodologies
- Investigating techniques and strategies to transition AI models towards a more data-centric paradigm, enhancing their performance, robustness, and capability to tackle real-world challenges

Personal Projects

Café Data Crawler

- Collaborated with 3 peers to design and implement an automated system using the Selenium Python API, analyzing and organizing quantitative statistics for over 9,500 coffee shops in Seoul
- Identified common success factors for businesses in the coffee industry, providing valuable insights for both emerging and struggling businesses

LeNet-5 Implementation with PyTorch

- Developed a LeNet-5 neural network model, training on MIT's MiniPlaces dataset with 120k images
- Utilized PyTorch Profiling Tools to optimize model efficiency and experimented with various training configurations for improved accuracy

Distributed File System

- Created a distributed idempotency file system server using UDP, utilizing a file system image to store and access data. Maintained in-memory versions of the file system data structures for performances.
- Built a client library enabling UDP-based access to the file server, implementing functions for file and directory operations, such as reading, writing, and deleting

Leadership Experience

Math and English Tutor   **Goyang-si, Korea | May 2019 - Present**

- Fostered a competitive learning environment to enhance students' Math and English skills
- Integrated English and Math concepts to streamline and enrich the learning experience
- Developed an effective teaching methodology tailored to captivate students' interests

Skills

Programming Languages: Python, Java, C, C++, R, HTML, CSS, JavaScript
Technical Skills: Data Analysis, Neural Networks, PyTorch, TensorFlow, NumPy, SciPy, Distributed System, Data Visualization, Data Structures and Algorithms, Object-Orientated Programming, Jupyter, Git/GitHub, Linux