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

Patient Portal Enhancement Development, Epic Systems **Madison, WI | Sep 2023 - Present**

- Enhancing Epic's MyChart portal with a GPT-API powered backend, simplifying medical terms and enabling multilingual patient communication to imporve health literacy and patient empowerment
- Boosting patient portal engagement and satisfaction by designing a user-centric Chrome extension and website features, emphasizing intuitive design and secure data handling
- Collaboratively developing full-stack solutions using React, JavaScript, HTML, CSS, and Python, to enhance functionality and security within Epic's MyChart patient portal

Directed Study in Data-Centric AI, Prof. Kangwook Lee **UW-Madison | Sep 2023 – Present**

- Pioneering a shift from model-centric to data-centric AI principles, advocating for an enhanced focus on data quality and relevance to address real-world application challenges
- Analyzing and applying data-centric techniques to improve AI model accuracy, security, and efficiency, particularly in scenarios characterized by variable data quality
- Exploring and assessing the impact of data-centric AI strategies to establish a foundation for practical, robust AI solutions in dynamic environments

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

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