JUNSHANG JIA

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EDUCATION

Carnegie Mellon University Current - December 2024
Master of Science in Information Networking
Relevant Coursework:Computer Systems, Machine Learning, Networking and the Internet
No sponsorship needed(Green Card holder)

University of Pittsburgh Aug 2019 - May 2023
Bachelor of Science in Computer Science;
GPA: 3.91/4.0; Major GPA:3.95/4.0;

PROFESSIONAL EXPERIENCE

Software Developer Intern June 2021 - Sep 2021
Ericsson *Beijing, China*

- Developed a Web-based Management system to assist the product development cycle of 5G radio base station
- Designed ER diagram based on the documentation of the products and created the database for the storage of massive-scale product information using SQL
- Built a web application with backend system using Spring Boot framework and implemented RESTful APIs that allowed users to manage millions of data using CRUD operations
- Used React and Antd framework to create frontend visual interfaces with dynamic features to enrich user interactions in searching and information checking behaviors

PROJECTS

Opensoundscape

- Contributed an open-source machine learning library, OpenSoundscape, that allows users to select the magnitude or power of the spectrogram and generate specific formats of annotation files using Python
- Developed comprehensive test cases to ensure thorough testing of software functionalities and identify any potential bugs or issues
- Actively participated in the development process by posting pull requests and engaging in discussions with team members to review and enhance code quality and project outcomes

Metis

- Built a forum to help people better judge whether information is misinformation, utilizing React and Python
- Utilized React to develop an intuitive and responsive login page, seamlessly integrating a Google account login feature using Google APIs, enhancing user convenience and authentication options
- Implemented comment features using Flask and MySQL, allowing users to reply and vote, promoting interactive discussions and engagement

Memory Allocator

- Designed and implemented a memory allocator from scratch for efficient memory management using C
- Incorporated strategies such as segregated free lists, explicit lists, and memory alignment techniques
- Successfully developed a robust and efficient memory allocator that outperformed existing solutions by improving memory utilization and throughput by an impressive 30%, while effectively preventing fragmentation and enhancing overall performance.

SKILLS

Java C Python React TypeScript JavaScript Linux Git SpringBoot MySQL PyTorch GCP Docker NoSQL