Rui Pan

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EDUCATION

UW-MADISON
BS in Computer Sciences + Applied Math
Madison, WI, USA
Sep 2018 - Dec 2021 (Expected)
GPA: 3.96 / 4.00

LINKS

GitHub:// **ruipeterpan**
LinkedIn:// **Rui (Peter) Pan**
Facebook:// **Rui (Peter) Pan**

COURSEWORK

GRADUATE (TAKEN AS UGRAD)
Advanced Operating Systems
High Performance Computing

UNDERGRADUATE
Algorithms
Artificial Intelligence
Bioinformatics
Computer Architecture
Computing Theory
Computer Vision
Database Systems
Data Analysis
Data Science (I/P)
Networks
Operating Systems
Theory of Computing
Calculus
Combinatorics
Discrete Math
Numerical Linear Algebra
Probability

COURSERA
Big Data Systems (I/P)
Deep Learning
Software Engineering
Front-end Web Design
Back-end Web Applications
Cryptography

SKILLS

Proficient:
Python • Java • C/C++ • C# • HTML/CSS
Familiar:
CUDA • R • Docker • PyTorch •
PostgreSQL
Some exposure:
Apache Spark • JavaScript

ACADEMIC FOCUS

I am broadly interested in everything system-ish (Machine Learning Systems, High Performance Computing, Cloud Computing, Operating Systems). For now, I am working on scheduling and resource allocation in GPU clusters.

RESEARCH

UNDERGRADUATE RESEARCH ASSISTANT | UW-Madison
COMPUTER SCIENCES DEPARTMENT
May 2020 – Present | Advisor: Prof. Shivaram Venkataraman
- Working on a resource allocation framework for large-scale multi-tenant computing clusters

UNDERGRADUATE RESEARCH ASSISTANT | Wisconsin Institute for Discovery
Jan 2020 – Mar 2021 | Advisors: Dr. Steven Wangen & Prof. Michael Ferris
- Worked on the Dairy Brain project, an analytics platform for evaluating and predicting the performance of dairy cows by aggregating large quantities of dairy data
- Developed, deployed and maintained the Agricultural Data Hub (AgDH), a warehouse-scale computing infrastructure for the collection, storage, homogenization, and distribution of dairy farm's feeding, milking, and management data in a series of PostgreSQL data marts
- Hosted poster sessions at the 3rd WID Research Symposium and presented in outreach meetings for the local dairy industry

EXPERIENCE

TUTOR IN COMPUTER SCIENCES AND MATH | Undergraduate Learning Center
Sep 2019 – May 2020 | Madison, WI

Offered drop-in and by-appointment tutoring sessions for core undergraduate computer sciences and math courses to individual or small groups of engineering students to improve academic performance.

SUBTITLE TRANSLATOR | Coursera
May 2019 – May 2020 | Remote

Translated English subtitles to Simplified Chinese subtitles in multiple popular computer sciences courses.

STUDENT INSTRUCTOR | RDC@HSASJTU
Sep 2017 – May 2018 | Shanghai, China

Designed an introductory computer sciences course about programming basics.

Gave lectures on AP Computer Science A and Intro to Data Analysis to 10+ students.

Last updated: Apr 2021