Zhao Liu

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EDUCATION

Jacobs University Bremen, Germany   Aug. 2015 - June 2018
B.S. Computer Science, GPA: 1,90/5,00 (Reverse Scale)

Carnegie Mellon University, Pittsburgh, PA, USA   Aug. 2017 - Dec. 2017
Exchange Student, School of Computer Science

PRACTICAL EXPERIENCE

Software Engineering Intern, Infervision, Beijing   Aug. 2018 - Present
• Build a highly configurable deployment system for our server cluster (React.js, flask, docker)
• Optimize fracture volume rendering based on series of CT dicom images (C++, VTK, ITK)
• Optimize GPU resources management for deep learning server (python, redis)

Teaching Assistant, Jacobs University Bremen
Programming in C & Python   Fall 2016 - Spring 2018
Responsible for: holding weekly tutorials; assisting students during the class; grading weekly homework and final exams

Teaching Assistant, Jacobs University Bremen
General Electrical Engineering lab   Fall 2016 & Spring 2017
Responsible for: assisting students with lab experiments, Q&A sessions for course's materials and final exams

RESEARCH EXPERIENCE

Research Assistant, Beihang University, *Advisor: Prof. Yuzhu Guo*   Fall 2018 - Present
• Evaluating laryngoscopy images with various methods e.g. image registration (C++)

Research Assistant, KWARC MathHub, *Advisor: Prof. Michael Kohlhase*   Fall 2015 - Spring 2016
• MathHub.info is a portal for active mathematical documents and an archive for flexiformal mathematics.
• Responsible for: Front End Development using HTML, CSS, JS

SELECTED COURSEWORK

Computer Graphics, Image Processing, Probability Theory, Formal Languages & Logic, Computability & Complexity, Computer Architecture, Database & Algorithms

SELECTED COURSE PROJECTS

Scotty3D, 15-462 Computer Graphics, Carnegie Mellon University   Fall 2017
A 3D interactive graphics software implements interactive mesh editing, realistic path tracing, and dynamic animation.(C++)

Thesis Project, Data Visualization, Jacobs University Bremen   Spring 2018
A virtual reality software visualizing high dimentional data (C#, Unity)

Malloc Lab, 15-213 Introduction to Computer Systems, Carnegie Mellon University   Fall 2017
A general purpose dynamic storage allocator for C programs. (C)

RESEARCH INTERESTS

Deep Learning, Image Processing, Computer Graphics, Data Visualization

HONORS AND AWARDS

Merit-Based Scholarship, Jacobs University Bremen   Fall 2015 - Present

ACTIVITIES

Jacobs University & Carnegie Mellon University Rowing Team   Fall 2015 - Spring 2018
A varsity rower of the competitive rowing teams of both universities.

PROGRAMMING   C, C++, Python, Bash, React.js, Matlab