

Website: <https://nmeisburger0.github.io>

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Education

Rice University, Houston, TX
Bachelor of Science in Computer Science
Bachelor of Arts in Mathematics

GPA: 4.00

May 2022

May 2022

Relevant Coursework

Linear Algebra | Multivariable Calculus | Algorithmic Thinking | Fundamentals of Computer Engineering | Reasoning About Algorithms | Tools and Models Data Science | Introduction to Program Design

Skills

Computer Skills: Python, Java, C/C++, High Performance Computing with MPI, OpenMP, and CUDA, JavaScript, HTML/CSS, ReactJS, NodeJS, ExpressJS, AngularJS, Latex

Experience

Research Intern

May 2019 - Present

RUSH Lab, Rice University

- Developed Distributed database system for top K selection queries using locally sensitive hashing and other probabilistic algorithms to achieve significant speedup and memory use reductions compared to standard database queries
- Incorporated algorithms such as Densified One Permutation Hashing and Top K API (a variation of Count Min Sketch) as well as MPI and OpenMP libraries to reduce time and memory costs while maximizing the computational capabilities of multi-node clusters

Project Coordinator Intern

June 2018 - August 2018

Day CPM, Portland OR

- Created live-updating project dashboards to streamline communication and increase accessibility and accuracy of project information, saving an estimated 5-10% of time for project managers
- Analyzed and overhauled project budgets to ensure correctness and clarity
- Developed and administered organizational systems, such as data and file systems, to improve efficiency

Projects

HackRice Open Source | Forum Web App

July 2019

- Designed and implemented a web app for creating and updating posts about project ideas for HackRice
- App features include the ability to create and update user accounts, the ability to write and vote on ideas, and ability for admin accounts to be created to monitor and regulate users and posts.

Rice Datathon 2019 | Project: Stock Analysis with Neural Networks

January 2019

- Designed and implemented back propagation neural network, receiving *Best Underclassmen Project*
- Applied deep learning algorithm to real world stock data to create model used to generate predictions for future trends and stock changes

Activities/Honors

Rice Datathon Chair/Head Organizer

Spring 2019 - Present

- In charge of planning and organizing the annual Rice Data Science competition

McMurtry College Webmaster

Spring 2019 - Present

- Head of developing and maintaining the website for McMurtry Residential College
- Designed and coded and entirely new website for the college that improved UI/UX elements and optimized the performance of the mobile version

Hack Rice 9 Planning Committee Head

Winter 2019 - Present

- Creating, administering, and organizing website for event
- Coordinated and managed judging for the competition

Head of Remix CS Curriculum Committee

Spring 2019 - Present

- Member of Remix CS Leadership Committee in charge of curriculum
- Planned and prepared curriculum and exercises as part of an organization to teach and mentor high school students in Computer Science