

St. Olaf Student

Portfolio: stoalf.edu/portfolio

Github: github.com/sample

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Phone: (XXX) XXX-XXXX

Education

St. Olaf College

Northfield, MN

Bachelor of Arts – Mathematics and Computer Science; GPA: 3.5

August 2018 – May 2022

Courses: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Mobile Computing Applications

Skills Summary

- **Languages:** Python, PHP, C++, JavaScript, SQL, Bash, Java, R
- **Frameworks:** Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, Node.js, LAMP
- **Tools:** Kubernetes, Docker, Git, PostgreSQL, MySQL, SQLite
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP, Alibaba Cloud, IBM Cloud
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

Experience

St. Olaf College MSCS Department

Northfield, MN

Lead Cluster Manager

April 2019 – Present

- Lead a team of cluster managers; held weekly meetings to discuss maintenance updates and issues regarding school servers
- Maintain 20+ services running on VMs/containers in Linux servers, Beowulf Clusters and HPC resources by configuring DHCP, LDAP, and Firewall/ACLs; lead the RStudio Server team that maintains 200+ client's accounts

Best Buy

Minneapolis, MN

Software Engineering Intern – Web Development

May 2021 – Sep 2021

- Developed user interfaces with modern JavaScript frameworks, HTML5, and CSS3; improved user satisfaction by 31%
- Programmed object-oriented code in Node.js with 100% accordance to company and industry standards
- Learned multiple threading, concurrency, design patterns, and their impacts on application concurrency

St. Olaf College

Northfield, MN

CURI Research Fellow – CSinParallel

May 2020 – July 2020

- Developed resources for teaching PDC using the Raspberry Pi and other single-board computers, emphasizing effective learning through the senses sight, sound, and touch
- Collaboratively develop a Jupyter-based platform for interactively teaching PDC through an online textbook, which will enable students to learn through experimenting interactively

Projects

- **Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images taken using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time by over 50%; *Tech: PHP, C++, Java, Python (March '21)*
- **Search Engine and Social Network (Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites at St. Olaf in 2020-2021; *Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML (May '20)*

Publications and Manuscripts

- **Research Article:** Current practices in mental health sensing *Published in XRDS: Crossroads, The ACM Magazine for Students (February '22)*
- **Research Paper:** Characteristics of Degree-Rips Bifiltrations from Random Geometric Point Clouds *Presented in the National Conference on Undergraduate Research 2021 (March '21)*

Honors and Awards

- Awarded title of Intel Software Innovator - May 2021
- St. Olaf Dean's List

Leadership Experience

ACM St. Olaf Chapter

Northfield, MN

Vice President

Jan 2020 - Present

- Conducted online and offline technical & soft-skills training programs impacting over 50 students