

Cam Pewter-Psy

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EDUCATION

St. Olaf College

Bachelor of Arts: Mathematics and Computer Science

Honors and Awards: Intel Software Innovator May 2021 and Dean's List

Expected Graduation: May 2024

GPA: 3.5

WORK EXPERIENCE

Lead Cluster Manager—St. Olaf College MSCS Department, St. Olaf College

April 2021 – Present

- Lead 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
- Manage the RStudio Server team that maintains 200+ client's accounts

Software Engineering Intern—Best Buy, Minneapolis, MN

May 2022 – September 2022

- Developed user interfaces with modern JavaScript frameworks, HTML5, and CSS3 and 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

CURI Research Fellow—CSinParallel, St. Olaf College

May 2021 – July 2021

- Developed resources for teaching PDC using the Raspberry Pi and other single-board computers, emphasizing effective learning through the senses of 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
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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 '23)*
 - **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 the top 1000 websites at St. Olaf in 2020-2021; *Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML (May '22)*
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SKILLS

- **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
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LEADERSHIP EXPERIENCE

Vice President, ACM St. Olaf Chapter, Northfield, MN

January 2020 - Present

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