

Kristofer Rye

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EDUCATION

St. Olaf College Northfield, MN
Sep. 2016–May 2020 (expected)

B.A. in Computer Science
B.A. in Mathematics

GPA: 3.69 / 4.0

Notable coursework:

- CSCI 253: *Algorithms and Data Structures*
- CSCI 300: *Parallel and Distributed Computing*
- CSCI 273: *Operating Systems*
- MATH 352: *Abstract Algebra II*

SKILLS

LANGUAGES

Proficiency

Ruby, Rust, Javascript, C/C++,
Java

Experience

LISP, Python, R, Go, C#, Elixir

TOOLS/Frameworks

Proficiency

Git, Docker, Ansible, Kubernetes,
RSpec, Jest, KVM

Experience

React, React-Native

WORK EXPERIENCE

St. Olaf College

Northfield, MN

Information Security Assistant, IT

Mar. 2018 – present

Performing regular **vulnerability management** tasks including regular scans of a ~10,000-device network. Developing tools to operationalize scan results results to aide in timely resolution. Developing tools to automate and enhance configuration auditing. Also categorizing and inventorying systems.

Helpdesk Technician, IT

Sep. 2017 – Mar. 2018

Provided **level one** support for clients, answering phone calls, filing, and updating tickets. Coordinated high-priority issues with second-level support within minutes.

Lead Cluster Manager, CS

Mar. 2017 – Sep. 2018

Co-managed the St. Olaf CS Cluster computing resources, handling everything from **VM provisioning** to **network architecture**. Gained valuable **on-call** experience, responding rapidly to power/network issues. Developed a robust monitoring infrastructure. Wrote extensive automation suites with **Ansible** and deployed large Kubernetes/Docker hosts as well as clusters of VMs.

Course Assistant: Software Design, CS

Jan. 2016 – May 2018

Graded homework and ran help sessions; helped to teach **Git**, **C++**, **OpenGL**, and **GNU Make**. Maintained an **open-source grading toolkit** to help automate the process of grading homeworks and labs.

Audio/Video Engineer, Broadcast/Media Services

Sep. 2016 – Apr. 2017

Learned and used valuable **camera operation** and **video production** skills. Directed and engineered some broadcasts, and participated in the annual St. Olaf Christmas Festival as a camera operator.

Spensa Technologies

Remote

Software Developer Intern

Nov. 2014 – Aug. 2015

Implemented a web dashboard and worked on a weather API.

West Lafayette Community School Corporation

West Lafayette, IN

Student Volunteer (IT)

May 2013 – Jul. 2014

Worked on an in-house ticketing system written in **Ruby on Rails**. Processed shipments of hundreds of devices, entering all asset information into the ticketing database. Developed a few ad-hoc **Ruby** software projects. Participated in regular maintenance activities including **re-imaging** large groups of computers at once.

PROJECTS

All About Olaf

Aug. 2017 – present

Shipping a mobile app to over 2000 iOS and Android users (750+ daily active) and tracking and managing dependencies as well as helping to work on **improving and streamlining deployment practices**. Regularly reviewing new changes and helping to coordinate releases.