

Seeking a software engineering or computer science internship or co-op to explore the field and further develop my skills and experience.

Education	Wayzata High School , Plymouth, MN	September 2014- June 2018
	University Of Wisconsin Madison , Madison, WI Pursuing Bachelor of Engineering in Computer Engineering and Bachelor of Science in Computer Science	Expected Graduation: May 2022
Professional Experience	UW Madison Computer Sciences— Student Systems Administrator , Madison, WI	August 2018 - Present
	<ul style="list-style-type: none">Responsible for supporting and administering thousands of Windows and Linux workstations and servers in the UW Computer Sciences department used by over 3,000 education and research usersManaging and maintaining the networking infrastructure by diagnosing, monitoring, and sustaining servers and network equipment such as routers, firewalls, and switches in the Computer Sciences data centerMonitor network intrusion, metric, and log management systems to prevent/detect issues with IT servicesResponsible for automation of various internal tasks such as account creation, running backups scripts, inventory management using MVC based web-apps, and switch port management	
	TCF Bank— Systems Engineer Intern , Plymouth, MN	June 2020 - August 2020
	<ul style="list-style-type: none">Worked as a Systems Engineer (DevOps) intern on the Solutions Engineering and Automation teamDeveloped and deployed a containerized micro-service written in Python onto Kubernetes responsible for collecting metrics through Prometheus for Active Directory migrations as a result of an ongoing mergerCreated a dashboard in Grafana to visualize the scraped metricsSetup and managed CI/CD pipelines in Jenkins and Drone to build and publish Docker images to a container registry, and deploy to Kubernetes clusterHelped migrate alerting services from onsite datacenter to Azure improving alert route resiliencyWorked on systems insights platform to create standardized observability pattern using various open-source technologies resulting in metrics/log collection, visualization, and alerting	
Other Experience	Target— Electronics Team Trainer , Medina, MN	June 2016 - January 2019
	Technology Consultant for Singh360 , Plymouth, MN	October 2018 - January 2019
	Website Development for Metro Anesthesia Services , Minneapolis, MN	June 2018- August 2018
	Network Designs, INC.— General Support and Shadowing , Plymouth, MN	May 2015 - September 2015
Relevant Skills	Languages:	HTML/CSS/JS, Java, NodeJS, Python, GO
	Technologies:	MacOS, Linux Ubuntu/Redhat, Windows, Git, MS Office, AWS, Azure, vmWare ESXi/vSphere, Kubernetes, Docker, Elastic (ELK) Stack, Prometheus, Jenkins, Grafana, Puppet, Django, Drone, Apache, Veeam/Acronis Backup, Nagios, Electron, React, MySQL, MongoDB
	Certifications:	CompTIA A+, CompTIA Network+ (IP), Cisco CCNET (IP)
	Concepts:	Full stack software and web development, Network configuration using Cisco/Ubiquiti, Systems Administration, Enterprise DevOps (Containerization and Systems Insights)
	Coursework:	Java 3, Calculus 3, Electromagnetic Engineering, Digital System Fundamentals, Intro to Electrical Engineering, Discrete Mathematics, Signals and Processing, Intro to Computer Engineering
Activities	Badgerloop— Website Team Lead & Software Team Member , UW Madison	August 2018 - Present
	<ul style="list-style-type: none">Student organization tasked with designing and building a hyper loop pod (badgerloop.com)Created a CRUD web-app running on NodeJS, Express, Handlebars, and login using the Slack APIWebsite team lead responsible for obtaining and configuring a new Apache web server on Ubuntu 18 ServerSoftware member responsible for designing new pod dashboard. Utilized HTML/CSS/JS to create a dynamic and interactive display for vital sensor information relayed from the pod by a NodeJS backend coupled with MongoDB that is intuitive and succinct.	
	Artificial Intelligence Club— Executive Board Member , UW Madison	January 2019- Present
	<ul style="list-style-type: none">Student organization dedicated to learning and working on AI problems and research (ai.cs.wisc.edu)Executive board member responsible for website development, and club brand representation	
	Business Professionals of America (BPA)— President , Wayzata High School	September 2014 - June 2018
	<ul style="list-style-type: none">Club president for 2017-2018 season, responsible for organizing, and leading all club activitiesReached national competition three times, placed 2nd in the nation for web design two years in a row, finalist at national conference for Systems Administration using Cisco, placed 1st in the state conference for Systems Administration Using Cisco and PC Servicing and Troubleshooting three years in a row	
Projects	Personal Website (lukehouge.com)	Badgerloop Website and Server (badgerloop.com)
	BPA 2018 Website (lukehouge.com/bpacares)	BPA 2017 Website (lukehouge.com/techly)