763.777.0605
lhouge@wisc.edu

Luke Houge
Full time employment starting May 2022 in Computer Engineering

www.lukehouge.com
linkedin.com/in/lukehouge

Education

University Of Wisconsin Madison, Madison, WI   **Expected Graduation: May 2022**

Pursuing Bachelor of Engineering in Computer Engineering and Bachelor of Science in Computer Science

Professional Experience

Thomson Reuters— Software Engineer Intern Eagan, MN   **May 2021- Present**
- Full-stack software engineer on developing a large web application based on Angular and Java
- Built new RESTful API and microservice to store user information in a Dynamo table served to the Javascript front-end UI, and Java back-end to dynamically update the interface and maintain user…
- Coding, testing, and deploying changes to enhance and maintain a large-scale software system
- Integrated product experience tracking to improve analytics and usage data for over 200,000 users
- Worked within an Agile team to plan and scope development work and deliver stable code to release

TCF Bank— Systems Engineer Intern, Plymouth, MN   **June 2020 - August 2020**
- Developed and deployed a containerized microservice written in Python onto Kubernetes collecting metrics through Prometheus for Active Directory migrations as a result of an ongoing merger
- Created a dashboard in Grafana to visualize the scraped metrics from Prometheus
- Setup and managed CI/CD pipelines in Jenkins and Drone to build and publish Docker images to a container registry, and deploy to Kubernetes cluster
- Helped migrate alerting services from onsite datacenter to Azure improving alert route resiliency
- Worked on systems insights platform to create standardized observability pattern using various open-source technologies resulting in metrics/log collection, visualization, and alerting

UW Madison Computer Sciences— Systems Administrator, Madison, WI   **August 2018 - August 2021**
- Responsible for supporting and administering thousands of Windows and Unix/Linux workstations and servers in the Computer Sciences department used by over 3,000 education and research users
- Managing and maintaining the networking infrastructure by diagnosing, monitoring, and sustaining servers and network equipment such as routers and switches in the Computer Sciences data center
- Monitor network intrusion, metric, and log management systems to prevent/detect IT service issues

Other Experience

Technology Consultant for Singh360, Plymouth, MN   **October 2017- January 2019**

Target— Electronics Team Trainer, Medina, MN   **June 2016- January 2019**

Website Development for Metro Anesthesia Services, Minneapolis, MN   **June 2018- August 2018**

Relevant Skills

Languages:	Java, Javascript, HTML/CSS/JS, Typescript, NodeJS, C, Python, GO
Technologies:	Angular, Spring, Git, AWS/Azure, vmWare ESXi, RxJs, NgRx, React, Mongo, DynamoDB, Oracle, MySQL, Kubernetes/Docker, Elastic, Jenkins, Puppet, Django, Apache, Electron
Certifications:	CompTIA A+, CompTIA Network+ (IP), Cisco CCNET (IP)
Concepts:	Full stack software and web development, Agile methodology, Network configuration using Cisco, Systems Administration, Enterprise DevOps (Containerization and Insights)
Coursework:	Java 3 (Data structures), Parallel and Throughput Optimized Programming, Computer Graphics Programming, Communication Networks, Microprocessor Programming in C

Activities

Badgerloop— Website Team Lead & Software Team Member, UW Madison   **August 2018 - Present**
- 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 API
- Designed and developed a succinct, intuitive, dynamic, and interactive dashboard to display vital sensor information relayed from the pod utilizing a NodeJS backend coupled with MongoD

Artificial Intelligence Club— Executive Board Member, UW Madison   **January 2019- Present**

Business Professionals of America (BPA)— President, Wayzata High School   **September 2014 - June 2018**