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Luke Houge

Full time entry-level position starting May 2022 in
Computer Engineering or Computer Sciences

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Education	University Of Wisconsin Madison, Madison, WI	Expected Graduation: May 2022
	Pursuing Bachelor of Engineering in Computer Engineering double majoring in Computer Science	
	GPA: 3.34/4.00	Deans Honor List: Spring '19, Fall '20, Spring '20

Engineering Experience	Thomson Reuters— Software Engineer Intern Eagan, MN	May 2021- Present
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- 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 persist user state
- 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
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- 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 configured for optimal site reliability
- 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
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- 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, Bash, 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
	<ul style="list-style-type: none">• Engineering student organization focused on designing/building a hyperloop 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 MongoDB	
	Artificial Intelligence Club— Executive Board Member , UW Madison	January 2019- Present
	Business Professionals of America (BPA)— President , Wayzata High School	September 2014 - June 2018