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Luke Houge

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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**
- Working as a 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 state across sessions
- 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 help plan and scope development work and deliver stable code to release

TCF Bank— Systems Engineer Intern, Plymouth, MN **June 2020 - August 2020**
- Worked as a Systems Engineer (DevOps) intern on the Solutions Engineering and Automation team
- Developed and deployed a containerized microservice written in Python onto Kubernetes responsible for 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 for site reliability
- 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 UW 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, firewalls, and switches in the Computer Sciences data center
- Monitor network intrusion, metric, and log management systems to prevent/detect issues with IT services
- Responsible for automation of various internal tasks such as account creation, running backups scripts, inventory management using MVC based web-apps, and switch port management

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: Java, Javascript, HTML/CSS/JS, Angular, Typescript, NodeJS, C, Python, GO

Technologies: MacOS, Linux Ubuntu/Redhat, Windows, Git, MS Office, AWS, Azure, vmWare ESXi/vSphere, Spring Boot, RxJs, NgRx, DynamoDB, Oracle, Kubernetes, Docker, Elastic (ELK) Stack, Prometheus, Jenkins, Grafana, Puppet, Django, Apache, Electron, React, MySQL, MongoDB

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 Systems Insights)

Coursework: Java 3 (Data structures), Calculus 3, Electromagnetic Engineering, Digital System Fundamentals, Parallel and Throughput Optimized Programming, Signals and Processing, Communication Networks, Computer Graphics Programming, PCB Design Lab, Microprocessors

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