

Connor Stamper

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TECHNICAL SKILLS

Languages Java, JavaScript, TypeScript, HTML5, CSS

Technologies Linux, Spring Boot, Git, React.js, MongoDB, RabbitMQ

Cloud AWS (EC2 w/ EBS, S3, Route53), Azure (VM, IoT Hub, ACR, DPS, AKS)

EXPERIENCE

PTC

Boston, MA

Onshape Operations – Software Development Engineer, Senior

March 2021 – Present

- Lead Developer of an application that manages thousands of EC2 instances that make up the Onshape platform
- Architect and build a solution to perform distributed indexing of 100 million documents into Elasticsearch from MongoDB
- Develop an Angular/Typescript UI to manage Elasticsearch indexing of Onshape documents
- Monitor, support, and improve the Onshape SaaS platform, which gained over 1 million users in 2020
- Keep dependencies and client code up to date (RabbitMQ, Zookeeper, MongoDB, Elasticsearch)
- Assume responsibility of handling alerts as part of the Onshape on-call rotation

Rotational Leadership Development Program (RLDP) – Software Engineer

August 2019 – March 2021

- Took notes and summarized key decisions and takeaways for the monthly PTC technology council
- Updated and maintained the RLDP website and internal process automation

Onshape – Rotation 3 and 4

- Improved a Java application that leverages the AWS SDK to launch and manage more than 1000 EC2 instances with custom AMIs, storage, puppet/ansible configurations, etc.
- Implemented API rate limiting for API keys and OAuth applications
- Upgraded dependencies such as Jetty, Gradle, and the AWS SDK to improve security and functionality
- Used Kibana and SignalFX to identify issues and fix bugs in the Onshape service
- Led a workshop on alerting, monitoring, and metrics to a group of senior engineers from other products within PTC

Kepware – Rotation 2

- Delivered an integration between Azure IoT Microservices and Thingworx for the first product release of Factory Insights as a Service (FaaS)
- Built out a test suite comprised of unit, integration, and acceptance tests
- Developed an OPCUA SDK leveraged by FaaS
- Collaborated daily with a software engineering team from Microsoft
- Created and presented demos to Microsoft and Kepware executives on a bi-weekly cadence

Enterprise Architecture – Rotation 1

- Developed an IoT System Manager microservice and a React webapp to register and manage systems in a customer's deployment
- Designed and built a GraphQL API to enable communication between microservices
- Leveraged Gitlab pipelines-as-code for CI/CD and Kubernetes + Helm for application deployment
- Utilized Azure IoT Services (IoT Hub, Azure Kubernetes Service, Azure Container Registries, Device Provisioning Service)

EDUCATION

University of Wisconsin-Madison

B.Sc., Computer Science

Certificate Mathematics

May 2019

- Winner of 3rd place at the 2018 UW-Madison hackathon