

Thomas McKernan

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github.com/mckernant1

Skills

Hard Skills: Java, Kotlin, Spring, Rust, Linux, Bash, DevOps, AWS, Cloud Native

Soft Skills: Agile, Scrum, Problem Solving, Mentoring, Ownership, CI/CD

Education

UNIVERSITY OF DAYTON | AUGUST 2016 - DECEMBER 2019

- B.S. Computer Science
- Minor: Math

Experience

SOFTWARE ENGINEER II | AMAZON WEB SERVICES | MARCH 2022 – PRESENT

- Reducing usage of AWS S3 by 60% by optimizing storage
- Reviewing code changes to increase customer metrics accuracy
- Implemented a custom data structure to reduce CPU usage in a Java application by 20%
- Working to maintain regional parity in worldwide infrastructure through CI/CD
- Designing new features to decrease system IOPS and increase customer availability
- Analyzing and comparing storage engines and databases

SOFTWARE ENGINEER I | AMAZON WEB SERVICES | FEBRUARY 2020 – MARCH 2022

- Upgrading massive python applications from 2.7 to 3.4 to avoid EOL issues
- Reducing usage of AWS CloudTrail by 90% after root causing and analyzing the usage
- Built and Launched CloudWatch Contributor Insights for DynamoDB on CloudFormation
- Answering customer tickets about DynamoDB throttling by going through logs and metric data to analyze issues
- Building tooling packages and bots to automatically add important information to tickets

SOFTWARE DEVELOPER | PEAPOD | JUNE 2018 – AUGUST 2019

- Built a sidecar for Peapod Microservices using Spring Cloud Gateway to offload authentication away from main application
- Worked to research integration between VueJs and AngularJs for framework migration
- Created custom performance tests with Vegeta (Go) and Gatling (Scala) for testing the sidecar to make sure it could handle high load at low latency
- Research into Nativescript, Xamarin forms, and Flutter for cross platform app development