

Thomas McKernan

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Core Skills

- Agile
- Being Curious
- Simplification and Refactoring
- Operational Tooling
- Strong Ownership
- Bias for Action
- Delivering Results
- Deep Diving/Troubleshooting

Competencies

Java, Kotlin, Rust, AWS, REST, Bash, Docker, Distributed Systems, Git, Python

Familiar with

Javascript, Typescript, VueJs, Angular, Spring, Go, Apache Spark, Ruby

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
- Working on building low level applications in rust

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

SOFTWARE DEVELOPER | FLYER ENTERPRISES | AUGUST 2018 – MAY 2019

- Contracting work on Shopify making custom components
- Maintaining and updating the Flyer Enterprises Andriod app to be compatible with UI changes

DATA ENTRY | NORTHWESTERN UNIVERSITY IT | AUGUST 2014 – MAY 2019

- Worked through the school year responding to emails in a timely manner
- Used and Autoclicker to automate work between excel and a website
- Created Python scripts to automate spreadsheet work in excel

Education

B.S. COMPUTER SCIENCE | DECEMBER 2019 | UNIVERSITY OF DAYTON

- Minor: Math