Zach Hartig

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Summary

6+ years of experience as a full stack software engineer. Expert in creating web applications using Spring Boot, Express, Flask, and Angular. Wide experience in DevOps practices and technologies like Docker, CI/CD and infrastructure as code.

Certifications & Skills

Languages: Java, Typescript/Javascript, Python
Tools and Frameworks: AWS, CI/CD, Docker, Spring Boot, Angular, Angular Material, Bootstrap, CSS, Elasticsearch, Express, Git, Gradle, HTML, Linux, Puppeteer, Redis, Spark, SQL, Vault
Certifications: AWS Certified Solutions Architect – Associate, AWS Certified Developer – Associate

Experience

T. Rowe Price, **Senior Software Engineer**, Owings Mills, MD   June 2016 - Present
Qualified Default Investment Alternative (QDIA)
- Created CI/CD pipeline to compile, containerize and deploy MATLAB code developed by the research team
- Implemented batch orchestration system to execute MATLAB code on thousands of servers and load output to DynamoDB using AWS Step Functions
- Developed UI to invoke and mange batch executions and customize input parameters passed into the batch tasks

Enterprise NiFi Deployment
- Implemented proof of concept for an enterprise deployment of Apache NiFi and NiFi Registry
- Architected pattern for deploying NiFi instances that automatically connect to a central registry, pull and configure NiFi flows
- Mentored team members to take the POC design to a developer ready solution running in AWS

Enterprise Metadata Management & PII Detection
- Lead technical implementation of new features by collaborated with product owners to translate requirements into stories and delegating work to members of the development team
- Designed data scanning system that utilizes machine learning to discover and tag PII that exists at the firm to aid with GDPR and CCPA compliance
- Developed microservices to retrieve and manage business metadata and relations to technical metadata

Managed File Transfer
- Implemented synchronization feature for file pulls reducing the time file pull jobs took by over 99%
- Decoupled stages of the file transfer process to increase fault tolerance using SQS and implemented queue management APIs to enable easy reprocessing of failed transfers
- Integrated WebSocket and Redis to deliver live events to users of the application, creating a more immersive and pleasant user experience

Miscellaneous
- Implemented CI/CD templates for the team's projects, including the first implementation of continuous deployment at T. Rowe Price
- Created CLI tool to automatically discover, retrieve, and refresh AWS credentials a user has access to

Education

M.S. in Computer Science, Johns Hopkins University, *GPA: 3.96*   Expected Graduation: December 2022
B.S. in Computer Engineering, University of Maryland, *GPA: 3.69*   Graduated: May 2017