

# Zach Romano



zromano.com



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## SKILLS

Programming Languages    Java, SQL, JavaScript, TypeScript, HTML/CSS

Software Technologies    Spring, React, Docker, Gitlab-CI, Kibana, Datadog, JUnit, SonarQube, AWS, Kubernetes, Helm

## EXPERIENCE



### Smartsheet

Dec 2020 - Present

#### Software Engineer

##### Development & Design:

- Designed/led full-stack development of 'deactivate user' feature as an alternative to deleting them
- Created a DynamoDB table to store privacy related policies based on a user's domain name
- Analyzed service performance with Locust to enable service to reach 4,000+ requests per second
- Improved caching and use of replicas to reduce load on database by over 10 million reads per hour
- Led an effort to upgrade essential company-wide libraries to Java 17 and SpringBoot 3

##### DevOps:

- Profiled memory/CPU utilization to determine optimal Kubernetes pod and JVM sizing
- Established a testing strategy that enabled high-frequency and high-confidence deploys
- Created a tool that automatically creates a pull request to update our dependencies to latest version

##### Teaching:

- Taught and encouraged modern Java/Spring practices and became the 'go-to' SpringBoot developer
- Mentored an intern and guided them on improving the SCIM interface with Azure Active Directory
- Introduced team to build technologies such as Gradle and Liquibase to improve pipeline speeds



### Boeing

Mar 2019 - Dec 2020

#### Full Stack Developer

##### Development:

- Produced an app to optimize purchasing that discovered \$1 billion in unrealized savings
- Developed an app that generates GitLab-CI pipelines to test and deploy existing apps

##### DevOps:

- Implemented zero downtime deploys so that applications can be released at any time
- Introduced team to persistent chat and set up webhooks for live alerting of pipeline failures

##### Teaching:

- Utilized paired programming to teach modern development practices for 1500+ hours
- Taught Extreme Programming principles such as Test-Driven Development and CI/CD
- Led courses to train developers on deploying software to the Pivotal Cloud Foundry



Aug 2017 - Mar 2019

#### Systems Engineering Rotation

- Created a website using .NET Core and Tableau to host real-time analytics

## PROJECTS

#### Capture the Flag

Created a publicly available cybersecurity challenge where users can try to "hack" an election

#### Online Clue Game

Headed a team that developed an online version of Clue using Angular and Firebase

## EDUCATION



Johns Hopkins

Master of Science in Computer Science, 4.0/4.0 - Focused in Cybersecurity



University of Illinois  
Urbana-Champaign

Bachelor of Science in Aerospace Engineering, 3.77/4.00