

# 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

### Backend Software Engineer

- Designed and led full-stack development to “deactivate” Smartsheet users instead of delete them
- Improved caching and use of replicas to reduce load on database by over 10 million reads/hr
- Created a tool that will automatically create an MR/PR to update our dependencies
- Led an effort to upgrade essential multi-team libraries to Java 17
- Established a testing strategy for resulting in high-frequency and high-confidence deploys
- Analyzed service performance with Locust to enable service to reach 2,000+ requests per second
- Configured daily SonarQube scans enabling code coverage monitoring and improved code quality
- Mentored a summer intern and guided them to improve the 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:

- Co-produced an app to optimize purchasing that discovered \$1 billion in unrealized savings
- Utilized Spring Security and OAuth2 to properly authenticate and authorize users
- Co-developed an app that generates GitLab-CI pipelines to test and deploy existing apps

DevOps:

- Established scalable Selenium browser tests that must pass prior to deployment
- 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
- Facilitated courses to train developers on deploying software to the cloud



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

Container Security

Integrated GitLab and Jenkins to scan Docker images pushed to the registry with Snyk

Online Clue Game

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

## EDUCATION



**Johns Hopkins**

August 2020

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

Courses in algorithms, web development, DevOps, web security, cloud security and IOS



**University of Illinois**

Urbana-Champaign

May 2017

**Bachelor of Science in Aerospace Engineering, 3.77/4.00**

Courses in data structures, algorithms, designing/building UAVs, and the development of aircraft