

# Zach Romano



zromano.com



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## SKILLS

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

Software Technologies Spring, React, Docker, Gitlab-CI, Kibana, Selenium, Jest, JUnit, SonarQube, AWS



## EXPERIENCE



Smartsheet

Dec 2020 - Present

Full Stack Software Engineer

- Designed and led full-stack development to allow users to be deactivated instead of deleted
- Improved caching and use of replicas to reduce load on primary DB by over 10M reads/hr
- Established daily SonarQube scans resulting in 7% improvement in code coverage
- Utilized Terraform to automate the creation of SQS queues in AWS
- Introduced team to newer build technologies such as Gradle and Liquibase on new service



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
- Identified and resolved over 150 bugs in production by adding SonarQube and Coverity
- 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 and building UAVs, and the development cycle of aircraft