

# MICHAEL SGROI

## Senior Software Engineer

Quality-oriented, security-driven software engineer with a Master of Science (M.S.) in Computer Engineering and 6+ years of work experience. Aiming to leverage a proven knowledge of research and development, team work, and project planning to successfully fill your design role. Bringing a background focused around full stack development (Java/Kotlin/Python/Javascript), cloud technologies, and CI tooling usage and creation. My passions are around solution architecting and teaching future engineers.

## Professional Experience

### SENIOR SOFTWARE ENGINEER

Trility Consulting, Urbandale, IA / Jan 2020 - Present

- Interviewing potential hires for our active and upcoming contracts
- Helping to craft interview processes and goals for technical screening
- Providing technical knowledge and guidance for marketing and sales opportunities

### BuilderTrend

- Integrating into an existing team to develop software in a large Android application
- Identifying areas for increased developer productivity and code improvement

### HyVee

- Developed Kotlin/Spring Boot and React/Redux/NextJS/HapiJS web application
- Architected entire application stack from database to user interface
- Integrated with customer CI/CD and customer owned legacy systems
- Configured cloud infrastructure including a PostgreSQL database, Google Cloud services, and Keycloak authentication using Helm and Terraform
- Integrated Debezium change data capture for monitoring and reporting
- Implemented monitoring, including Splunk, New Relic, MDC context logging
- Crafted tests using Jest/Enzyme and Cypress for the UI and Kotest for the backend
- Trained and supported HyVee developers

### Performance Mindset

- Helped develop a React Native app
- Introduced Enzyme and helped close gaps in testing

### ADJUNCT PROFESSOR (COMPUTER INFORMATION SYSTEMS)

Des Moines Area Community College, Des Moines, IA / Jan 2021 - Present

- Teaching introductory level Java to college students.
- Providing real world coding concepts and best practices to better prepare students for the work force.
- Tailoring content and feedback to ensure that any areas that students are struggling in get extra attention.

### SOFTWARE ENGINEER

Workiva, Ames, IA / May 2018 - Jan 2020

- Developed front end filing code in Dart for our second generation Wdesk product
- Developed back end filing code in Java and Python utilized by the Wdesk client to support two generations of our product
- Managed and promoted testing within the filing team by providing guidance to teammates and orchestrating testing learning sessions resulting in a higher quality code base
- Promoted code quality by working with teammates on best practices while maintaining a push for feature production
- Provided leadership and training for new hires on our team as well as more experienced
- Engaged in company guilds and work outside of my team to advocate and implement improvements company-wide
- Interviewed candidates and worked to hire most of our newest members who have done great work for our team

### SOFTWARE ENGINEER INTERN

Workiva, Ames, IA / Jan 2018 - May 2018

- Created project management software for customers as part of the filing team

### TEST ENGINEER INTERN

Workiva, Ames, IA / Aug 2017 - Dec 2017

- Programmed front and back end components in Python for multiple in house automated solutions to enable better testing of development code within the company

📍 Ames, IA

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## EDUCATION

### IOWA STATE UNIVERSITY

GPA: 3.75

Ames, IA

M.S. Computer Engineering, focus on Cyber Security (May 2018)

### IOWA STATE UNIVERSITY

GPA: 3.73

Ames, IA

B.S. Computer Engineering (Dec 2016)

## SKILLS

### Languages/Frameworks

Java



Gradle



Python



Django



Dart



Javascript



Kotlin



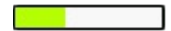
PHP



C#/.NET



Tomcat



Spring



React/Flux/Redux



### Tools

Docker



AWS



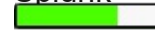
Rancher



Jira



Splunk



Git/Github



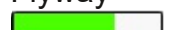
GCS



Concourse



Flyway

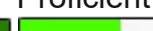


### Key

Fluent



Proficient



Basic



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## Professional Experience (continued)

### JAVA DEVELOPMENT INTERN

*Amazon, Seattle, WA / May 2017 - Jul 2017*

- ❑ Programmed a full stack solution in Java for an internal metric dashboard
- ❑ Utilized Lambda for triggering data storage to ElasticSearch and a Tomcat-based tool for serving the front end

### QUALITY ASSURANCE INTERN

*Workiva, Ames, IA / May 2016 - Jul 2016*

- ❑ Programmed front and back end components in Python for multiple in house automated solutions to enable better testing of development code within the company

### JAVA DEVELOPMENT INTERN

*Union Pacific Railroad, Omaha, NE / Jan 2016 - May 2016*

- ❑ Worked on Java Hosting Team on new cloud environment being developed in house

### STUDENT RESEARCHER

*Iowa State University, Ames, IA / Aug 2015 - Nov 2015*

- ❑ Researched making an emulated GPU to run calls captured (using "apitrace" tool) from a live

### JAVA DEVELOPMENT INTERN

*Union Pacific Railroad, Omaha, NE / May 2015 - Jul 2015*

- ❑ Developed a full stack application with a Java back end, ColdFusion front end, and PostgreSQL database
- ❑ This application was a stress test program designed to remotely cause software and infrastructure issues and was very similar to, and inspired by, the Netflix Chaos Monkey program

### WEB DEVELOPMENT INTERN

*Octadyne Systems, Ames, IA / Jan 2015 - Apr 2015*

- ❑ Made additions and bug fixes to ColdFusion websites

### WEB DEVELOPMENT INTERN

*Berkley Technology Services, Urbandale, IA / Jun 2014 - Aug 2014*

- ❑ Made additions and bug fixes to ASP.NET websites
- ❑ Experimented with vendor product integration into the existing systems