

Ryan Gillespie

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SOFTWARE ENGINEER

Full Stack Software Engineer

CORE COMPETENCIES

Git | Github Actions | Typescript | Javascript | CSS | SCSS | Webpack | Puppeteer | React Testing Library | Java | Spring Boot | Spring MVC | Python | Pandas | Numpy | Keras | AWS | Terraform | ECR | ECS Fargate | EC2 | REST | GraphQL | SQL | PostgreSQL | NoSQL | DynamoDB | MongoDB

PROFESSIONAL EXPERIENCE

John Deere | Chicago, IL

Jan 2023-Present

Software Engineer - Corporate Functions IT-HR

- Architected, designed, and implemented a search engine for John Deere lawyers that allowed them to search legal documents. Used Typescript, PostgreSQL and docker to create an image, then Github Actions with Terraform to deploy all software to a single ECS Fargate instance on AWS.
- Developed daily job with python that compares over 100,000 employee records from two separate APIs on an AWS Lambda. Optimized the run time from over 40 minutes to under 30 seconds using non blocking code patterns. Afterwards Advocated for these patterns internally and brought widespread adoption among developers.
- Overhauled the John Deere Aviation briefing site using Typescript and Java to complete the project in 2 months, which had been in development for over 6 months prior.
- Used a Spring Boot API on an AWS EC2 instance to create and deploy a new service in response to a vendor pulling support for basic authentication with a deadline of 2 weeks.
- Created a daily job on an AWS Lambda that linked our security badge database to a third-party service that allowed employees to reserve open desks.

John Deere | Moline, IL

Jan 2022-Jan 2023

Software Engineer - Order Management

- Collaborated with Senior and Staff level engineers to re-deploy our module on a Modular Federated build with typescript and webpack configuration.
- Modernized our React codebase by eliminating more than 150 class-based components which yielded 20% faster testing time in Github Actions.
- Automated our snapshot test generation by creating a Github Actions workflow with puppeteer. Engineers saved an estimated 20 hours per Quarter generating snapshots
- Used React Testing Library to reduce the number of unit tests by 90% by eliminating Enzyme tests.
- Overhauled Java functionality in a cross-team system in a single sprint by making both team's modules work seamlessly together in a single sprint.

EDUCATION

B.S. Computer Sciences | University of Wisconsin-Madison | 2018 - 2021

VOLUNTEER EXPERIENCE

FIRST Robotics Competition Mentor | Dubuque, IA | Sep 2022-May 2023

Worked with high school students (grades 9-12) to advance their technical, communication, and leadership skills

FIRST World Championships Exhibitor | Houston, TX | Apr 2024

Volunteered at the John Deere Innovation booth. Spoke to high school students about Engineering at John Deere and College