

Ian Perkins

ASSOCIATE SENIOR SOFTWARE ENGINEER

6 Cresswell Ln, Bella Vista, AR 72714

📞 (479)-802-1667 | ✉️ ian.r.perkins@protonmail.com | 📱 [irperkin](#) | 🌐 [ianperkins1](#)

Education

University of Arkansas - Fayetteville

[Fayetteville, AR, USA](#)

B.S. IN COMPUTER SCIENCE

Aug. 2014 - May 2018

- Minor in mathematics and graduated with honors.

Skills

Languages/Frameworks Ruby on Rails, Lua, React.js, Go

Backend Technologies Openresty, NGINX, Phusion Passenger, REST APIs, MySQL, Redis

DevOps Tools Docker, Jenkins, Spinnaker, Mesosphere DC/OS, Gatling, New Relic, Splunk, Terraform

Work Experience

Cerner

[Kansas City, MO, USA](#)

ASSOCIATE SENIOR SOFTWARE ENGINEER

Feb. 2021 - Present

- Develop and maintain an organization-wide Ruby on Rails API platform that handles 365 million requests per week for hospitals and clinics worldwide aggregated across multiple geographical and logical zones.
- Designed and developed a Ruby on Rails rate limiting service to protect the platform and the services behind it from a high volume of requests, increasing overall availability across the platform.
- Created an npm package in React.js that was integrated into an internal application for engineering teams to quickly and easily manage how they set rate limits to protect their services.
- Improved monitoring and observability to our web platform by creating a Lua library to communicate telemetry data from the API platform to New Relic for analysis and alerts on platform health.
- Mentor new engineers and formally evaluate whether they are prepared for their permanent team assignment.
- Answer questions and drive discussion in a public forum regarding adherence to standards like the OpenAPI Specification, Ruby on Rails best practices, and applicable RFCs.

Cerner

[Kansas City, MO, USA](#)

SOFTWARE ENGINEER

Aug. 2018 - Feb. 2021

- Led initiative to decouple the weekly platform deployment testing from the functional validation, integration testing, and prototyping of our contributors' APIs via a Jenkins job and loadbalancer configuration, saving thousands of engineering hours to date.
- Implemented a distroless Docker image that eliminated hundreds of CVEs from unused system packages provided by default in the OS image.
- Transitioned from a WEBrick server to the Openresty web platform with an NGINX web server in order to remove a bottleneck for high volume POST endpoints and streaming resources (upload and download).
- Identified and managed Service Level Objectives (SLOs) and Service Level Indicators (SLIs) to set a baseline expectation for all APIs incorporated into our platform.
- Monitor, support, and resolve metrics alerts from various telemetry sources, scheduled tenant migrations, and incidents related to the platform.
- Maintain and curate platform and services' documentation for external consumers.
- Simplified and centralized our API Developer Guide and platform contribution process to eliminate unnecessary paperwork.
- Developed New Relic dashboard and alert templates using Terraform modules to improve the continuous delivery process when deploying to new cloud region zones.
- Responsible for platform health, support, weekly deployments, and incident response while on-call and as escalation manager.

Writing

Computational Complexity of Determining the Rigidity of FTAM Assemblies

[ScholarWorks @ UARK](#)

CO-AUTHOR

Aug. 2017 - May 2018

- Discusses the property of rigidity in folding tile assembly models (FTAM) by devising a simple definition of rigidity using a 3SAT reduction to determine its complexity leading to a co-NP-complete result.