

Billy J. Rhoades

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Experience

ngrok

Senior Software Engineer — Tech Lead

June 2023 - July 2023
October 2019 – April 2022

- Redesigned core logic from Redis Lua to tested Rust
- Built [custom module loading system](#) for injecting a Rust module into Redis
- Developed an orchestrated HA system built around Redis Sentinel
- Led and architected [ngrok's next generation platform](#), [Cloud Edges](#)
- Owned upgrade of years old on-prem distribution used by ngrok's largest client
- Diagnosed and improved performance of billion+ row Postgres DML
- Modernized and improved ngrok's automated abuse handling

ngrok

Engineering Manager: Network Edge

Seattle, WA
April 2022 – June 2023

- TAM and primary point of contact for ngrok's largest client
- Managed ngrok's most complicated project to date, Global Network, to launch
- Led process development: a SDLC and engineering onboarding processes
- Reduced deploy time of Postgres event bus service from 5 to 1.5 hours

Cerner Corporation

Senior Software Engineer – Team Lead

Kansas City, MO
September 2018 - October 2019

- Led team of 4-7 new engineers in improving Patient Portal
- Triage and handled client escalations while filtering and investigating defects
- Optimized releases: reduced artifact creation times and redundant documents
- Designed and implemented passive uniqueness checks on massive Oracle table
- Prototyped Python 2 to 3, Django 1 to 2 upgrade for massive Django monolith
- Designed, drafted, and proposed workarounds for large client requests

Cerner Corporation

Associate Senior Software Engineer

Kansas City, MO
June 2016 – September 2018

- Developed and maintained Patient Portal, a Django web portal
- Designed Gatling stress tests for a Rails framework
- Pageletized Rails, React, and Django webpages

Projects

- 🐙 **redis-loadmodbytes:** Redis module for injecting libraries over the wire
- 🐙 **dlux:** Tiny Rust daemon for controlling monitor hardware brightness
- 🐙 **Grader:** Docker-based automated Grading of student assignments
- 🐙 **Markovirc:** Markov chain IRC bot in Ruby which generates human-like text

Technical Skills

Languages: Rust, Golang, Python, TypeScript, Nix, C++, BASH
Software: Kubernetes, gRPC, Protobuf, Redis, Rails, Django, GNU Toolchain, Linux, PostgreSQL

Education

Computer Science B.S.

Missouri University of Science and Technology

Spring 2016