JOSHUA PAGAN

SOFTWARE ENGINEER
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CONTACT

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🖥 https://jynx.dev

EDUCATION

Codesmith | New York City
Engineering Bootcamp 2020

University of North Carolina
Bachelor Fine Arts Drama 2017

CERTIFICATION

Red Hat Certified
System Administrator

Certified 2021 on RHEL 8

TECHNICAL SKILL

Experienced:

Golang	Node.js/Express
Docker	Kubernetes
Ansible	Bash
Nginx	Systemd
RHEL 7/8	Fedora
SELinux	Firewalld
Javascript	React
Typescript	Webpack
Tailwind CSS	HTML
CSS	SVG
Jira	Agile
Scrum	Kanban
Git	GitHub

Knowledgeable:

Redux	C++
GraphQL	Jest
MongoDB	Supertest

INTERESTS

Camping/Hiking
D&D
Acoustic Guitar
Independent Music/Cinema

EXPERIENCE

Software Engineer | Jynx (self-operated)   March 2021 - Present

Tooling & Operations | Internal tools and services

‣ Designed CI/CD pipeline which uses GitHub Actions to build, deploy, and register events with a Golang/Systemd service that runs corresponding Ansible playbooks for an automated deployment cycle of ~ 3min from PR

‣ Developed images for container driven operations with a focus on small builds for easy testing and deployment

‣ Spearheaded a system-wide Kubernetes graduation initiative

‣ R&D for **Swordfish**, a container development environment solution for preset workflows with X11 passthrough

Infrastructure & System Administration

‣ Composed Ansible playbooks which configure all aspects of the system, handle deployment events, and everything below

‣ Established a local image registry service which automatically updates itself with code that successfully builds from source

‣ Scaffolded Nginx reverse-proxies which delegates ingresses

‣ Customized the SELinux policies on Fedora and RedHat systems to establish more acute mandatory access control

‣ Hardened security layering with Firewalld and Fail2ban to detect and protect against inappropriate or unknown access into and out of the system

HTTP & Webapps | Webservers & Browser Applications

‣ Designed Golang webserver which aims to be efficient, intuitive, maintainable, and testable

‣ Decreased site latency by indexing site content into dynamic templating map

‣ Designed and implemented a map of the conceptual system architecture with React

‣ Built messaging logic for internal Slack-like team based messaging app in React, Typescript, Express / Node.js, and TailwindCSS

‣ Customized Webpack development and production bundles complete with dev-server with hot-reload functionality for a complete development environment

PROJECTS & OPEN SOURCE

PostQL | GraphQL Performance Testing and Metrics Monitor (archived)

‣ Acted as Scrum Master for a team of developers on the project, using Jira to manage Scrum board and Sprint planning

‣ Leveraged knowledge of Redux, GraphQL, Typescript, MongoDB, and Node.js to evaluate progress, review code, and take over tickets when devs were overcommitted