

# JOSHUA PAGAN

SOFTWARE ENGINEER  
Asheville, NC, USA

## 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

August 2020 - Present

**Tooling & Operations** | Internal tools and services

- Designed and implemented a System Controller API in Go for interactive use by an operator or integration into automated system event workflows
- Scaffolded CI/CD pipeline which uses GitHub Actions to build, deploy, and register deployment events with the SC API service to run 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
- Configured Nginx reverse-proxies which delegates ingress
- 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 UML map of the 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
- Evaluated progress and provided support where it was needed most across a stack consisting of Node.js, Typescript, GraphQL, React, Redux, and MongoDB