

# Hanna Rose (it/she)

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## Skills

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**Roles:** Software engineering, Community management, Community moderation, Team leadership

**Languages:** JavaScript, TypeScript, Rust, Zig, Python, HTML, (S)CSS, C, C#, C++, Obj-C, Go, Lua, Swift

**Tools:** React, Vue, Svelte, Nomad, Consul, Vault, Kubernetes, KVM, IPMI, PostgreSQL, MySQL, Git

## Experience

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### Discord — Community Moderator

- Managing large communities of 250,000+ people.
- Moderating servers for EA, Riot, Discord and more.
- Utilizing ticket bots for user support and appeals.
- Creating applications to assist moderation tooling.
- Creating community spaces for game releases.

Remote  
May 2019 - Present

### Hyperbeam — Software Engineer

- Lead a complete end-to-end redesign of the [watch](#) site.
- Spearheaded front-end development using Vue and NodeJS.
- Optimized database queries utilizing PostgreSQL indexing.
- Implemented backend functionality using the Go language.
- Collaborated with a team of ~10 people using GitLab.

Remote  
Nov 2019 - Apr 2022

### NetVPX — Customer Support Lead

- Managed customer support tickets using Zendesk.
- Managed a remote team of ~15 people over Discord.
- Maintained backups using SCP, RSync, and S3 storage.
- Remotely managed servers using SSH, KVM, and IPMI.
- Restored access to servers that have been locked out.

Remote  
Mar 2019 - Aug 2021

## Projects

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### Ghostty — <https://github.com/ghostty-org/ghostty>

*A featureful GPU accelerated terminal emulator for Linux and macOS*

- Written in Zig and Swift for cross-platform compatibility and speed.
- Uses GPU acceleration to achieve high-throughput text rendering.
- Compliance with the XTerm specifications as well as many others.
- Implements the Kitty Keyboard Protocol for better keyboard input.
- Implements the Kitty Graphics Protocol for built-in image support.

### Crabber — <https://github.com/crabber-net/crabber>

*An open source social media alternative for Twitter written in Python*

- Written in Python for an easily maintainable and modular codebase.
- Implements a moderation queue, account system, and media proxy.
- Production website used a Nomad cluster with HAProxy for balancing.

### Kernel — <https://github.com/zig-osdev/riscv-barebones>

*A barebones RISC-V kernel template made for the QEMU emulator suite*

- Written in Assembly and Zig, utilizing linker scripts and system calls.
- Implements fundamental hardware functionality such as UART and HART.
- Implements a very basic bootloader using Assembly to load a kernel.

### Veil — <https://github.com/hqanna/veil>

*An encrypted file storage utility and personal vault for the command line*

- Written in the Zig language for fast, efficient, and safe code.
- Utilizes Ed25519, X25519, BLAKE3, and Aegis for encryption.
- Uses optimizations to achieve speeds of up to 10 files/sec.