

Joshua Bemenderfer

Senior software engineer and systems administrator

Northwest Georgia · josh at thederf.com · thederf.com/portfolio · github.com/JoshTheDerf

SUMMARY

Senior software engineer and Linux sysadmin with 13 years of professional experience, eight of them running development and infrastructure for a nonprofit with offices in seven countries. I plan and carry out large migrations, consolidate systems that grew out of control, and set up the tooling that lets a small team ship. Former development team lead.

SKILLS

- **Engineering:** TypeScript, JavaScript, PHP, Rust, C, Python, SQL; Vue, Nuxt, Node.js, Bun, Directus, PrestaShop, Joomla
- **Operations:** Linux, Docker, Caddy, Nginx, Cloudflare, AWS, Google Cloud, Kubernetes, MySQL, PostgreSQL, SQLite, backups and monitoring
- **Delivery:** GitHub Actions, Turborepo, staged rollouts, migration tooling, developer environments, documentation and onboarding
- **AI:** Claude Code, Claude Agent SDK, MCP, AI features in production systems

EXPERIENCE

Senior Developer and Systems Administrator · Creation Ministries International · 2018-present

- 3,700+ commits across the organization's repositories.
- Second-largest contributor (1,680 commits) to the rebuild of the public platform, moving it from a legacy PHP CMS to Nuxt and Directus with the front end on Cloudflare Workers. Wrote most of the CI, the production deploy scripts and the development environment.
- Planning and building the migration of a legacy subscription system: deterministic ETL, report-fidelity harnesses, and two-way sync rolled out in stages (off, inbound, dry run, live), with a written production rollout checklist.
- Combined about 20 separate RPC services into three service apps and four MySQL instances into one; moved the shared RPC library to TypeScript.
- Rolled out Office 365 single sign-on across eight internal apps.
- 544 commits to the PrestaShop web stores: custom modules and per-country payment gateways for offices in seven countries.
- Upgraded the main CMS from Joomla 3 to 4 and an internal app to PHP 8; maintain the Docker setup for the legacy services.
- Built a one-script Windows/WSL development environment that sets up the whole stack for new developers.
- Added AI features: an MCP server for published content and an AI actions extension for staff automations.

Development Team Lead · ioAware · 2016-2017

- Designed the front-end and back-end architecture, database schemas and UI.
- Built two front-end apps (Angular 2 and Vue.js) and a Node.js REST API on AWS.

Full-Stack PWA Developer · VIPetTag · 2017-2018

- Designed, built and deployed an offline-capable veterinary records PWA: Vue.js, Node.js and PostgreSQL on Kubernetes and Google Cloud.

Consulting and freelance · 2013-2018

- HabitStack: rewrote the business logic of a B2B mobile app and replaced its build system.
- CMC Markets and BlueAnchorSEO: Alexa and Google Assistant app on AWS Lambda.
- MIDI2Piano.com: full-stack web app using WebAudio and WebMIDI.
- Smaller client projects through Upwork.

OPEN SOURCE AND WRITING

- Author of [prerenderer](#); top contributor to [prerender-spa-plugin](#) (7,300 stars).
- [Quark](#), a C++ GUI toolkit; a TypeScript port of IncrediBots 2.
- About 100 web development articles for Alligator.io (now part of DigitalOcean).
- Merged contributions to Directus, PrestaShop, vue-loader and Electron.

INFRASTRUCTURE I RUN

- 31 Docker Compose services behind Caddy on my own server: Forgejo with CI runners, file storage, single sign-on, WireGuard, LAN DNS, and public apps and games behind Cloudflare.

OTHER

- Taught English full-time in Weihai, China, and a Western culture workshop at Shandong University (2015, 2017-2018).