Mark Garrigan

Full-stack engineer · 20+ years · idea to production

I've built and shipped web products for over 20 years, and I start each one by learning who it's for, what they work with today and what they need it to do. Then I plan it, implement it, ship it, and keep it maintained and monitored.

How I build: by hand until early 2026; since then I plan each change thoroughly, guide AI agents through the implementation and review the result before it ships

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De Pere, WI

Experience

Optum · Lead Software Engineer — Remote · 2019-04 → now

I build tools and full-stack apps for data scientists and the engineers who move their models to production. The work blurs reporting, CI/CD and DevOps.

- Reusable remote dev environments that let data scientists run their code where their data lives. Optum has a data-gravity problem, and moving the code next to the data is often simpler than moving the data.
- Model and app deployment to Kubernetes with Docker and Helm, plus the shared GitHub Actions CI/CD pipelines and their documentation.
- Internal apps for access control, configuration management, reporting, project management, resource management and compliance.
- I'm on call for what we build, with observability and infrastructure as code, and I mentor engineers through code and design reviews.

Angular · Node · Go (CLIs) · Docker · Helm · Kubernetes · GitHub Actions · Databricks · Snowflake · Postgres

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nurun co. · Founder, software engineer, race director — De Pere, WI · 2016-04 → now

My trail and ultra running race company. I create, direct and market the races, coordinate volunteers before and on race day, and own the software that runs them.

- **nurun.co**, the race site, built in 2017 and now on its third version (2018, 2021).
- **nurun-admin** (2026), where I run race operations: entrant imports with a preview before anything is written, bib assignment per race date, shirt sizes, thank-you notes by household, race emails and race history. It replaced my spreadsheets.
- Race timing with **Bibsee** (page 2), fed straight from nurun-admin's entrant export.

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randmstudio · Co-founder & lead developer — De Pere, WI · 2005-05 → now

Custom web work for small and large businesses: a content management system built for each project, or new designs built into the client's existing system.

- **Luna Coffee**, a client since the early 2000s. The site is on its fourth version and the admin on its third. Today it's the roaster's whole online business: storefront and Stripe checkout with pickup, local delivery or shipping (EasyPost labels), an order admin, an API, a phone app the local driver delivers from, and monthly Stripe sales reports. Over those versions it opened online ordering, local delivery, shipping, gift cards and fundraisers.

Earlier experience

Headway · Senior Full Stack Developer — De Pere, WI · 2015-12 → 2016-04

Worked with startups and large companies on user-driven, Agile projects. I turned UI/UX designs into working HTML, handled client relations, ran code reviews and tracked budgets.

WS Packaging · Senior Web Developer — Green Bay, WI · 2008-11 → 2015-12

Led UI and engineering teams on the company's digital products, from concept to deployment:

- A zero-downtime digital asset management system handling 18+ million files
- A complete overhaul onto a custom e-commerce platform
- A real-time, Git-based CMS
- An estimating UI that cut quote generation from days to minutes

Selected projects · case studies at markgarrigan.com

[Live] **Bibsee** — 2025-09 → now

Offline-first race timing, started for my own trail race, which runs where the cell signal ends. A Raspberry Pi runs it in Docker over local HTTPS and iPads record bib passes. Timed the Black River Trail Classic in 2025 and 2026, and it's becoming a product for other race directors.

Bun · SQLite · Go (Bubble Tea console) · Docker · bibsee.com

[Soon] **boxx** — 2026-05 → now

A Go TUI and CLI that installs and runs Docker apps on one Linux host, shaped after trying Kamal and Coolify: HTTPS for every hostname through Caddy, an optional MySQL or Postgres database with generated credentials, and zero-downtime deploys. Local development mirrors the hosted setup. It deploys bibsee.com, nurun.co and nurun-admin.

Go · Bubble Tea · Cobra · Docker · Caddy

[Soon] **stored** — 2026-05 → now

A self-hosted commerce engine for merchants who don't want a platform bill before their first sale: products and stock, checkout with live shipping rates and labels, customer emails and mailing lists. Its first store is Bear Mark Publishing's book series.

Bun · MySQL · Stripe · EasyPost · Mailgun

[Live] **Plainwork** — 2025-12 → 2026-01

An experiment in how small a useful app can be: four macOS menu bar apps, each a single Swift file, plus a Bash notebook CLI, all shipped through Homebrew in two weeks.

Swift · Cocoa · Bash · Homebrew · plainwork.github.io

Skills by layer

Interface	JavaScript, TypeScript, Angular, HTML, CSS/Tailwind, htmx, Alpine.js, Figma, terminal UIs (Bubble Tea)
API & runtime	Node, Bun, Express, Go, Swift, Shell, Ruby on Rails (earlier work)
Data	Postgres, MySQL, SQLite, Snowflake, Databricks
Infra	Docker, Kubernetes, Helm, Azure, GCP (Cloud Run), Hetzner, Netlify, Caddy
Ops & CI/CD	GitHub Actions, infrastructure as code, observability, on-call, JFrog, HashiCorp Vault
Integrations	Stripe, EasyPost, Mailgun
Tools	Claude Code (agentic development), GitHub Copilot, Neovim, VS Code, Ghostty, LazyGit

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