

Henry Barefoot

Senior Full-Stack Engineer | AI Automation & Agentic Systems

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SUMMARY

Senior Full-Stack Engineer with 8+ years shipping production web applications and AI-powered systems. Recently led the end-to-end architecture and delivery of Allied Yacht Transport's AI logistics platform — Next.js, TypeScript, Node, Claude API, n8n — reducing quote turnaround from days to minutes across 15+ international ports. Open-source author of Engram, an MCP memory layer for AI agents (v1.5.3, 226 tests, MIT-licensed, GitHub Sponsors enrolled). Strong in agentic systems, RAG pipelines, and large-codebase ownership. Available immediately for senior contract or W-2 roles, fully remote.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), Node.js, Python, PHP, SQL, HTML, CSS, SASS
Frontend	Next.js, React, Tailwind CSS, shadcn/ui, Framer Motion
Backend	Node.js, Express, REST APIs, GraphQL, WebSockets, OAuth 2.0
Databases	PostgreSQL, MongoDB, SQLite (FTS5), MySQL, Firebase, BigQuery
AI / LLM	Claude API, OpenAI API, Ollama, LangChain, MCP (Model Context Protocol), RAG pipelines, prompt engineering, local embeddings
Automation	n8n, Zapier, custom webhooks, Salesforce Marketing Cloud, HubSpot, Stripe
DevOps	Vercel, AWS, Docker, GitHub Actions, CI/CD, Linux VPS, systemd
Tools	WordPress (custom plugins), Looker Studio, Tauri, Git, GitHub

WORK EXPERIENCE

Allied Yacht Transport — Director of Technology	Aug 2025 – Jun 2026
- Led end-to-end architecture and development of an AI-powered yacht-transport platform, reducing quote turnaround from days to minutes across 15+ international ports. - Designed and shipped three specialized Claude-powered AI agents (visitor-facing, member-facing, and internal admin) with human-in-the-loop approval gates. - Architected dynamic pricing and routing engines with weight, insurance, and compliance logic, enabling scalable global operations. - Established modern development standards using Next.js, TypeScript, and Tailwind CSS, delivering a secure admin dashboard with RESTful APIs and role-based access controls. - Authored complete continuity, admin, and deployment documentation enabling clean ownership handoff at project completion.	
Stack: Next.js, TypeScript, Node.js, PostgreSQL, n8n, Claude API, Tailwind CSS, Vercel	
Addigy — Web Developer	Aug 2023 – Jul 2025
- Built and maintained scalable WordPress sites, developing 8+ custom plugins, reusable components, and responsive landing pages to support marketing and business operations. - Improved user experience and performance by enhancing UI, ensuring cross-browser and mobile compatibility, and collaborating with designers and marketers. - Developed data dashboards in Looker Studio with BigQuery, integrating third-party tools (HubSpot, custom APIs) to streamline lead capture and marketing operations.	
Vital Pharmaceuticals — Sr. Web Developer	Feb 2020 – May 2023
- Led the development team and managed project workflows through task delegation and ticket creation. - Built landing pages and marketing features using PHP, Node.js, WordPress, JavaScript, and React. - Integrated third-party platforms and applied best practices to ensure scalable, efficient code.	

- Supported cross-functional teams and assisted with developer onboarding in a fast-paced, multi-project environment.

AARP — Email Developer

Jan 2022 – Jul 2022

- Designed and developed custom email templates from scratch within Salesforce Marketing Cloud.
- Imported and segmented customer lists, setting up automation workflows and performance metrics.
- Ensured cross-client compatibility and responsive rendering across major email platforms.

Crystal Cruises — Email Developer

2018 – 2020

- Built a custom Node.js automation tool using Cheerio, MongoDB, and Axios to automate the creation of HTML content blocks for Salesforce email templates.
- Designed and coded responsive HTML emails optimized for consistent performance across all major email clients.

OPEN-SOURCE PROJECTS

Engram — Persistent Memory Layer for AI Agents

github.com/HBarefoot/engram

- Open-source MCP server enabling cross-session memory for Claude Desktop, Claude Code, Cursor, n8n, and any MCP-compatible client. Single-process Node.js + SQLite + FTS5 + local embeddings architecture — zero Docker, Postgres, or Qdrant dependencies.
- v1.5.3 in production · 226 tests · MIT-licensed · GitHub Sponsors enrolled · listed in 6 MCP-server directories.

Stack: Node.js, TypeScript, SQLite (FTS5), MCP, REST API, React, Tauri, Xenova transformers

Frutero — Raspberry Pi Controller with AI Advisor

next.henrybarefoot.com/frutero

- Open-source local-first controller for monotub fruiting chambers, with Claude/Ollama-powered AI advisor for contamination detection from sensor and camera data.
- GPIO hardware control, live camera streaming, smart-mist safety clamps, multi-channel alerts, batch tracking, and tiered SaaS dashboard.

Stack: Node.js, SQLite, Raspberry Pi GPIO, Claude / Ollama, React, systemd, TLS

EDUCATION

CS50X Miami — Computer Science

2015 – 2017

Miami Dade College

- Harvard CS50 curriculum delivered locally; mastered abstraction, algorithms, data structures, encapsulation, and web development.

Web Development Certifications

2015 – 2016

Miami Dade College

- Building Responsive UI with Bootstrap · Creating HTML Apps with jQuery · Mastering Node.js · Advanced CSS3 and HTML5

FREELANCE & SPECIAL PROJECTS

Freelance Automation Consultant

Ongoing

- Designed and deployed automated workflows using n8n to integrate CRM, email, and payment systems for small businesses.
- Self-hosted n8n instances on cloud VPS with secure HTTPS, database backups, and observability.
- Built custom n8n nodes to handle proprietary API integrations and complex business-logic transformations.