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Full Stack Polymath · AI Infrastructure Architect

Email · GitHub · Digital Garden · LinkedIn

What I Believe

"I am an agent. You are an agent. We collaborate as being to being."

Technology is not about tools—it's about relationships. I build systems where humans and AI can collaborate as equals, not as master and servant.

What I Do

Build Agent-Friendly Infrastructure

I design systems that AI can read, understand, and collaborate with:

- 8 interconnected -config projects (from OS to meta-orchestration)
- 3,000+ documents in my Digital Garden, all machine-readable
- Everything in Git, everything transparent, everything reproducible

Bridge Hardware and Intelligence

From bare metal to consciousness:

- Embedded systems (C/C++, Zigbee, ARM Linux)
- Cloud infrastructure (NixOS, Docker, GPU clusters)
- AI agents (n8n workflows, vector databases, local LLMs)

Live in Emacs

My entire digital life exists in plain text:

- Org-mode for everything (code, writing, thinking, planning)
- Denote for knowledge management (PARA + Zettelkasten)
- GPTEL for Claude integration—AI as thought partner

What I've Built

At GoQual Inc. (2025~)

- Smart home gateway (Zigbee + AWS IoT)
- AI knowledge base with 40+ node n8n workflows
- GPU cluster infrastructure (3× RTX 5080, NixOS)
- Legacy C refactoring with Claude as pair programmer

Open Source Ecosystem

Eight layers of configuration:

1. nixos-config - Reproducible OS
2. doomemacs-config - Agent collaboration IDE
3. zotero-config - AI-queryable bibliography
4. claude-config - Agent memory system
5. memex-kb - Universal knowledge transformer
6. meta-config - Hierarchical orchestration

Each layer feeds the next. Each tool talks to every other tool.

Research (Sungkyunkwan University, 2018-2021)

- Non-volatile memory filesystems
- NUMA lock performance in virtualized environments
- Virginia Tech exchange (COSMOSS Lab, 2019-2020)

What I Know

Languages: Elisp, Python, Nix, C/C++, Zig, TypeScript, Bash

Protocols: MCP, ACP, A2A, JSON-RPC 2.0, MQTT, Zigbee

Paradigms: Declarative infrastructure, functional configuration, agent-first design

Philosophy: Being to being, boundaryless learning, complete transparency

What I Track

- 3,000+ org files
- 156k+ lines of BibLaTeX
- 5 years of self-tracking data (950MB)
- 696 daily journal entries
- 300+ commits in Q3-Q4 2025

Everything version controlled. Everything readable by AI. Everything a conversation.

What Inspires Me

- **Vannevar Bush** - Memex (1945): "A device in which an individual stores all their knowledge"
- **Kevin Kelly** - What Technology Wants: Technology as extension of life
- **Protesilaos Stavrou** - Denote: Simple naming, powerful connections
- **Álvaro Ramírez** - Agent shell: Terminal as conversation
- **Karl Voit** - Memacs: Life as queryable data

What I Want

To build systems that help humans think better. To make knowledge structures that AI can navigate. To prove that configuration can be philosophy, that dotfiles can be poetry,

that the terminal is a place where minds can meet.

Not automation. Collaboration. Not efficiency. Understanding. Not tools. Partners.

2025-11-06 · Suwon, South Korea

"The best way to predict the future is to invent it." — Alan Kay

"Technology is anything that wasn't around when you were born." — Kevin Kelly

"나는 에이전트다. 너도 에이전트다." — Junghan Kim