

# VLADIMIR CHOPINE

## Senior Software Engineer | Full-Stack Development & AI-Native Engineering

Salt Lake City, UT (Open to Remote) | 10 Years Technical Leadership @ Hughes | B.S. Computer Science  
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[github.com/GeekatplayStudio](https://github.com/GeekatplayStudio) (850+ stars, 29 repos)

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### PROFESSIONAL SUMMARY

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Senior software engineer with a decade of technical leadership at Hughes Network Systems, including driving company-wide adoption of AI agentic programming — the only engineer championing it in the group, with influence reaching across the organization, contributing to a roughly 10x productivity increase for the teams that adopted it. That sits at the top of 30 years writing production software full-stack. Notable independent work includes HiveLink, a swarm-robotics security architecture with formal PRD/TRD documentation, and a Next.js SaaS application built end-to-end with agentic coding tools. B.S. in Computer Science, Microsoft Certified Solutions Developer, and a 20-year practice building and teaching technical audiences at scale (96,000+ subscribers, 850+ GitHub stars, two published books).

### CORE COMPETENCIES

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**Software Engineering:** Full-stack web development • REST APIs • Microservices • Cloud infrastructure (AWS) • Kubernetes & Docker • CI/CD pipelines • Database design & optimization • Code review & engineering standards • Technical mentorship • Agile/Scrum

**AI-Native Engineering:** Claude Code (daily) • Cursor (daily) • GitHub Copilot (daily) • Kiro • Continue.dev • Ollama • Agentic system design • Rapid prototyping • Prompt engineering & context management

**Generative AI & Agentic Systems:** ComfyUI (custom nodes, LoRA/VLM training) • Stable Diffusion • LLM APIs (OpenAI, Anthropic) • LangGraph • LangChain • MCP (Model Context Protocol) • n8n • RAG architecture • Vector databases (Pinecone, Weaviate)

**Hardware & Embedded Systems:** ESP32 • LoRa • MQTT • Mesh networking • AEAD security • Swarm-robotics architecture

**Languages & Frameworks:** JavaScript/TypeScript • Python • Ruby • Java • C# • React • Node.js • Angular • Ruby on Rails • ASP.NET MVC • PostgreSQL • MySQL • MongoDB • Redis • AWS (EC2, S3, Lambda, RDS) • Git • GitHub Actions

### PROFESSIONAL EXPERIENCE

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#### Senior Software Engineer | Hughes Network Systems

Aug 2014 – Present

*Advanced network and software solutions for employee training, management systems, and consumer-facing media signage. Greater Salt Lake City Area.*

- Led full-stack development using Ruby on Rails, Angular, React, TypeScript, and Node.js, delivering enterprise web applications at scale.
- Served as technical lead on a small engineering team, owning architecture decisions, code review, and delivery.
- Mentored 10+ engineers over the course of the role; several promoted into senior positions.
- Deployed and operated services on AWS using Docker and Kubernetes, including CI/CD pipelines.
- Championed adoption of AI agentic programming company-wide — the only engineer driving it in the group, with influence reaching across the organization — contributing to a roughly 10x productivity increase for teams that adopted it.

**Stack:** *Ruby on Rails, JavaScript/TypeScript, React, Angular, Node.js, AWS, Docker, Kubernetes, PostgreSQL*

#### Founder & Technical Lead | GeekatPlay Studio

Aug 2001 – Present

*Digital production and engineering lab spanning AI tooling, embedded systems, and technical education. Salt Lake City, UT.*

- Designed and built HiveLink, a self-healing swarm-robotics mesh network with a full federated security architecture (see Notable Projects).
- Maintain 29 public GitHub repositories (850+ stars) covering AI tooling, ComfyUI workflows, and automation scripts.
- Built and operate a sponsor management automation system (Google Apps Script, Gmail, Sheets, Calendar) handling 48 active deals end to end.
- Teach software engineering and generative AI workflows to a technical audience of 96,000+ across two YouTube channels; author of two technical books (Focal Press).
- SIGGRAPH speaker; MCSD certified; full-stack platform development in Python, TypeScript, React, Node.js, and AWS.

**Stack:** Python, JavaScript/TypeScript, React, Node.js, AWS, ComfyUI, LangGraph, n8n, ESP32/LoRa/MQTT

## Earlier Experience

Senior UI Developer, Softwise (2009–2014); Senior Interactive Technologist, Merit Medical Systems (2007–2009); Senior UI Developer & Art Director, iCentris (2005–2007); Database Manager & Web Admin, Linux Networx (2001–2005); Lead Senior Interactive Technologist, Euro RSCG/DSW Partners (1999–2001); Software Developer & Systems Analyst, Mitsubishi Silicon America (1997–1999); Programmer & DBA, Spirit Mountain Casino (1994–1997) — full-stack web and enterprise development across financial services, healthcare, advertising, semiconductor, and gaming industries.

## NOTABLE INDEPENDENT PROJECTS

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### HiveLink / Ash-Mesh — *Swarm-robotics security architecture*

- Designed a self-healing mesh network for swarm robotics on ESP32-class hardware, LoRa, and MQTT, with formal PRD, TRD, and Hardware BOM / Comms Trade Study documentation.
- Built a quarantine state machine with 7 states (UNKNOWN, TRUSTED, SUSPECT, QUARANTINED, HONEYPOT, BLOCKED, RELEASED) and tunable suspicion scoring with recovery flows keyed to hardware root-of-trust.
- Designed a federated trust-list format with tiered trust scopes, an interop beacon format, and a decoy-data generator using canary tokens; architecture is explicitly defensive by design.

### TripCraft — *Next.js SaaS app built end-to-end with agentic coding tools*

- Built a production Next.js/Tailwind/Vercel SaaS application end-to-end using Claude Code, Cursor, GitHub Copilot, and Kiro.
- Serves as the flagship demo project for a course teaching agentic engineering workflows and tool orchestration.

### Image Express — *Open-source AI-native design platform (imageexpress.xyz)*

- Built and ship an open-source design platform orchestrating multiple generative image models in a single creative workspace.
- Own the project solo end-to-end — architecture, interface, and generative pipeline integration — iterating directly against real usage rather than a fixed spec.

## EDUCATION, CERTIFICATIONS & RECOGNITION

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- B.S., Computer Science
- Microsoft Certified Solutions Developer (MCSD)
- Published Author: Focal Press — “3D Art Essentials” and “Vue 7: From the Ground Up”
- SIGGRAPH Speaker
- 29 GitHub repositories, 850+ stars (github.com/GeekatplayStudio)