Brian Takita

Building emergent software systems through agent loops, spec-driven development, automated verification, and collaborative intelligence tooling where agents and humans work in parallel with full context. 20+ years full stack experience.

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SUMMARY

Over 20 years of software development experience developing full-stack applications. Most recently built the full real-time AI avatar pipeline at Presence AI. Now focused on spec-driven agent tooling and collaborative intelligence workflows. Utilizes philosophy, logic, language, & qualitative/quantitative approaches to create software models to explore & accurately represent the domain.

SKILLS

Node.js, React, Next.js, Django, FastAPI, Flask, Angular, Sveltejs, Vuejs, Zod, Flutter, Go, Rust, Ruby on Rails, C#, PostgreSQL, Supabase, Firebase, AWS, Terraform, Google Cloud, Azure, Docker, CI/CD, Plesk, Heroku, Agentic system, Claude, Squarespace, Wordpress, Wix

EXPERIENCE

Presence AI — *Lead Backend Engineer, AI Pipeline*

April 2024 - Feb 2026 (1 year 10 months)

- Architected and shipped the entire real-time video pipeline: facial landmark detection, LatentSync lip-sync inference (VAE decode, denoising, restoration), idle video generation, and frame sequencing on NVIDIA H100 GPUs via LiveKit
- Architected a multi-service AI monorepo with closed-loop agentic workflows and self-auditing development infrastructure (Claude Code / Codex)
- Developed an iterative agentic development methodology: lightweight living specs refined through closed-loop agent auditing and continuous human-inthe-loop feedback, accelerating design velocity while staying in flow with the emerging design
- Built reusable async primitives for high-quality agent-authored code and human comprehension: task lifecycle management, scoped cancellation, lazily resolved dependencies that decouple initialization order and cascade invalidation through the context, runtime profile logging, and stable crossstack naming to maintain conceptual coherence for both human and agent reasoning
- Improved lip-sync quality through landmark temporal smoothing, LatentSync model upgrades, and optimized Whisper audio feature extraction via improved audio stream batching

Open Source — *Creator / Solo Developer*

2024 - Present

- corky — Git-Based Correspondence Toolkit (Rust) https://github.com/btakita/corky | Docs
- agent-doc — Git-Native Document Sessions with AI Agents (Rust) https://github.com/btakita/agent-doc

Other contributions:

- RSpec — Core contributor to the Ruby Behavior Driven Development (BDD) testing framework
- SvelteJS — Contributor
- RMemo/RelementJS — Creator. Smallest & most composable reactive isomorphic component library in JavaScript
- rappstack — Creator. Full-stack framework using BunJS & Elysia for extensible web app modules
- Access Query Analyzer — Creator. .NET WinForms query analyzer for MS Access
- lazily-py — Creator. Lazy evaluation with context caching in Python
- lazily-zig — Creator. Cross-platform & thread-safe lazy evaluation with context caching in Zig

Brian Takita — *Fullstack Engineer*

January 2019 - Feb 2026 (7 years 1 month)

Manage, develop, & ensure success of short-term freelance software projects. Uses subcontractors for development. Web and mobile Flutter apps across all industries.

Censible — *Lead Product Developer*

January 2016 - Feb 2026 (10 years 1 month) | Greater New York City Area

Develop web solutions for Financial Services, centered around a Environment, Social, Governance (ESG) lens. These tools help investors align their investments with their values & to manage exposure to ESG topics.

- censible.co
- esg.censible.co
- esg.censible.co/rebalance

SocialChorus — *Senior Software Engineer*

February 2018 - August 2018 (7 months) | Remote

- Product Development on the Studio team
- Convert legacy Backbone FrontEnd to Svelte & React
- ES5 to ES6/ES2017 migration
- Create best-practices for Front End component development

Neo Innovation, Inc. — *Software Development Consultant*

September 2015 - December 2015 (4 months) | Greater New York City Area

Developed email-based research pipeline app for Financial Holdings company. Workflow involves actor (i.e. CEO or sales) emailing contacts & contextual notes, to be researched and processed by the analyst team. The app semantically matches the text to companies & contacts in Salesforce to assist the analyst team with further refinements & analysis.

CrystalCommerce — *Senior Software Developer*

January 2015 - September 2015 (9 months)

Migrated production Rails app. Re-architected the front end using Node.js, Browserify, Gulp, and Backbone.

Rundavoo — *Platform Architect / Lead Front End Developer*

March 2013 - December 2014 (1 year 10 months) | Greater Los Angeles Area

Led front-end development for Rundavoo, a Google top 75 app in 2014. Created a responsive, multi-platform (desktop, tablet, mobile, server) application that integrated with several APIs via CORS and a proxy server. Technologies: HTML5, CSS3, Node.js, Browserify, Jasmine, reactive programming, Cloudflare, PhoneGap

Milyoni, Inc. — *Architect/Lead Developer*

March 2012 - March 2013 (1 year 1 month) | Pleasanton, CA

Lead developer for Social Entertainment Platform including video, social marketing, gamification, real time social interaction, and interactive engagements synced with video. Build/Maintain the Social Video on Demand and Live Event platform which is used by Warner Brothers, Lions Gate, Paramount Studios, Universal Music Group, Hearst Media, Starz, Ovation TV, Astro, Focus Features, Funimation, Sundance Now. Mentor junior & mid-level developers. Proponent of flattening communication across the organization. Also pushed to give the development team greater autonomy and increased influence in product development and prioritization. Technologies include: **Node.js, Backbone.js, Rails, Postgres, Redis, and Heroku**

TrueCar, Inc. — *Senior Software Engineer*

August 2010 - February 2012 (1 year 7 months) | Santa Monica, CA

Senior member of advanced product team, which introduced new products, integrations with major partners (WSJ.com, USAA.com car reviews), and devops (Chef to automate EC2 architecture, workstations, and new datacenter servers). Rails 3 Upgrade. YUM packaging for deployment. Led initiatives to share agile knowledge across the organization and integrate services.

honk.com. — *Lead Developer*

August 2009 – August 2010 (1 year)

Vehicle review site and embeddable white-label platform used by USAA and Wall Street Journal Autos (invested by Fox News Corp, acquired by TrueCar). Led development and partnered on product vision for social car shopping that was key to the acquisition.

- Full-stack Ruby on Rails development
- High Availability deployment on EC2
- Javascript client/server event framework (jelly)
- Chef scripts for server and workstation automation

Pivotal Labs — *Agile Engineer*

January 2006 – August 2009 (2 years 7 months)

Agile Development in the XP tradition. TDD, Pair Programming, Daily Standups, Retrospectives. Worked with early startups to bootstrap their engineering process, team, and initial product. Leadership role in common code, practices, and open source. Projects: Honk, Maven Link, KGB.com, Grockit, KDA Research, Real Girls Media, heavy.com, Bringo, CommunityWalk Open source contributions: - Erector — Ruby Builder and Widget framework for generating HTML - JS Test Server — organized Javascript TDD - Unison — relational algebra Ruby library with events

Peer to Patent Project — *Consultant*

February 2004 – January 2006 (1 year 11 months)

- SQL Server DB Admin
- Developed internal CRM with Rails, .NET & MS Access
- Website ASP development
- Reports for Sales Trends and forecasting

EDUCATION

University of the Pacific — *BS, Engineering Physics*

(1997 - 2002)

CERTIFICATIONS

- **Advanced Permaculture Course in Teaching**
- **Permaculture Design Certificate**

LANGUAGES

English: Native