PROTOMOTA

Brad Dunlap

Technology leader in AI, product and engineering

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1 Summary

Technology leader with 20+ years automating business and technology work, from hand-written scripts, test-driven development and CI/CD pipelines at RIIS to AI agents built with Claude and Codex today. Focuses on signal over noise and roots out performance theater: work that checks boxes but doesn't move the needle. At NTT DATA, leads the team behind a Fortune 500 AI pilot. Now, with AI as a force multiplier, builds and ships native AI-powered apps and AI agent systems solo through Protomota.

Table 1. Key figures

Professional experience	20+ years
Overruns during scoping program	0 projects
Apps built solo, live on the App Store	2
Self-published websites and web apps	6
Native apps shipped through Protomota	7
Automotive brand apps led	7
Shopping center apps directed	15

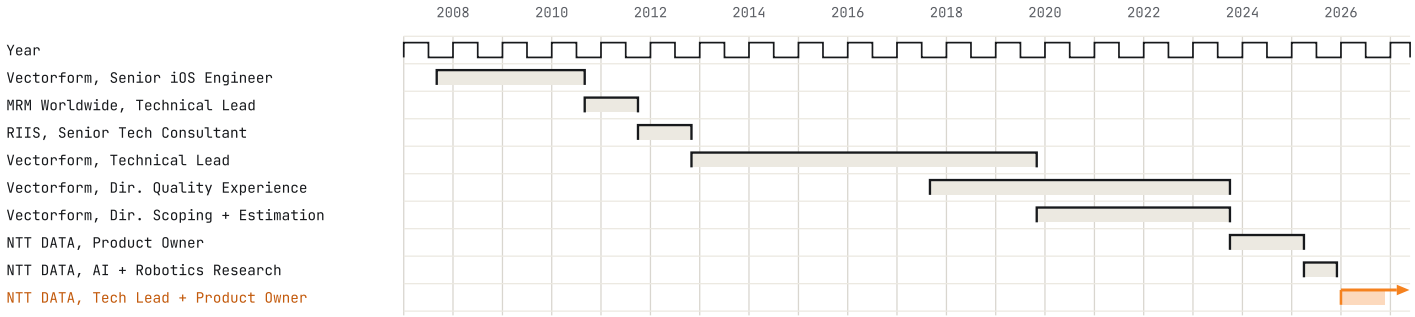


Fig. 1. Employment timing diagram, 2007 to present. Overlapping traces are concurrent leadership roles at Vectorform.

2 Professional experience

NTT DATA

Digital Solution Consultant Associate Director — Oct 2023 – Present

Technical Lead and Product Owner — Jan 2026 – Present

- Lead a small multidisciplinary engineering team building VR, voice and AI-assisted automation applications for a Fortune 500 client's confidential workflow initiative, now in pilot.
- Lead Azure, Next.js and Unity architecture, including Infrastructure as Code (IaC) and CI/CD.
- Build AI and voice capabilities: speech recognition, text-to-speech, conversational AI and voice commands.

Research and Development in AI and Robotics Simulation — Apr 2025 – Dec 2025

- Built agentic systems with Claude and Codex to coordinate technical, research and delivery work.
- Simulated robots in NVIDIA Omniverse and Isaac Sim and trained them in NVIDIA Isaac Lab; built ROS 2 workflows connecting hardware behavior and software-driven test environments.

Product Owner, Enterprise Mobile Application — Oct 2023 – Apr 2025

- Owned a multi-year iOS and Android application for a top U.S. manufacturing company, translating product direction into epics, user stories and acceptance criteria for a 20+ person team in Azure DevOps.

Protomota

Independent work outside professional employment

Founder and Independent Developer — protomota.com

- Built Jotley solo, from concept through all development, marketing and training materials; live on the App Store.
- Built PulseCanvas Studio solo the same way; live on the App Store for Mac, iPhone, iPad and Apple Vision Pro.
- Shipped five more Mac apps, available from their websites: OpenTalon, Inkspring, Voxley, Textley and Glimmer.
- Build AI agents with Claude and Codex, including a dashboard that automates lab workflows.
- Built REST APIs for personal apps and automated their environment setup and releases.
- Run airesourcepro.com and two YouTube channels: free tutorials and videos for learning AI by building with it.

Vectorform

Director of Scoping and Estimation — Nov 2019 – Oct 2023

- Built and led a scoping and estimation process that took the company from several overrun projects per year to zero during program ownership.
- Improved estimate accuracy and profitability by aligning scope, staffing, feasibility and risk with Sales and Delivery; introduced analytics comparing actuals against estimates.

Director of Quality Experience — Sep 2017 – Oct 2023

- Led a small QA team and brought TDD and automated UI testing from RIIS to Vectorform.

Technical Lead, Mobile Application Engineer — Nov 2012 – Nov 2019

- Led the full lifecycle of seven Stellantis/FCA apps: Mopar, Chrysler, Dodge, Jeep, Ram, Alfa Romeo, Fiat.
- Led the DTE Energy Insight App and real-time Energy Meter integration from concept through launch, supported FCC approval, and contributed technical and product expertise to its spin-off into a new company, Powerley.
- Directed 15 Taubman shopping center apps with Bluetooth and Wi-Fi indoor navigation. Automated environment setup and CI/CD releases for mobile projects.

RIIS

Senior Tech Consultant, Mobile Strategy and App Development — Oct 2011 – Nov 2012

- Wrote scripts to provision and configure development and test environments on a small team.
- Directed iOS and Android apps and introduced test-driven development, Jenkins CI/CD pipelines and automated UI testing.
- Reverse engineered and penetration tested clients' iOS and Android apps to help harden their security.

MRM Worldwide

Technical Lead, Front End — Sep 2010 – Oct 2011

- Led front-end development for Chevrolet.com's annual model refresh, defining architecture and coding standards.

Vectorform

Senior iOS Engineer — Sep 2007 – Sep 2010

- Founded Vectorform's mobile practice as its first iOS developer; led apps featured on the Apple App Store.

3 Technical skills

Area	Capabilities
AI and automation	AI engineering, Model Context Protocol (MCP), prompt engineering, AI agents, LLM fine-tuning, end-to-end workflow automation, Claude, Codex, Cursor
Product engineering	React, Next.js, Python, REST API development (personal apps), databases, Swift, SwiftUI, macOS, iOS, Android, Unity, virtual reality (VR), voice technologies, Internet of Things (IoT), technical design
Platform and delivery	Infrastructure as Code (IaC), DevOps, CI/CD pipelines, GitHub Actions, Jenkins, Azure DevOps, Azure, AWS, Cloudflare, Linux administration, Docker, Proxmox, JIRA, Fastlane, release automation
Testing and security	Playwright, mobile UI automation, BrowserStack, test strategy, QA process design, mobile penetration testing, reverse engineering, vulnerability analysis
Methods	Agile, Scrum, Scaled Agile (SAFe), XP, TDD, PI planning, backlog management, estimation, scope governance

4 Education

Bachelor of Fine Arts (BFA) in Graphic Design, Eastern Michigan University

5 Certifications

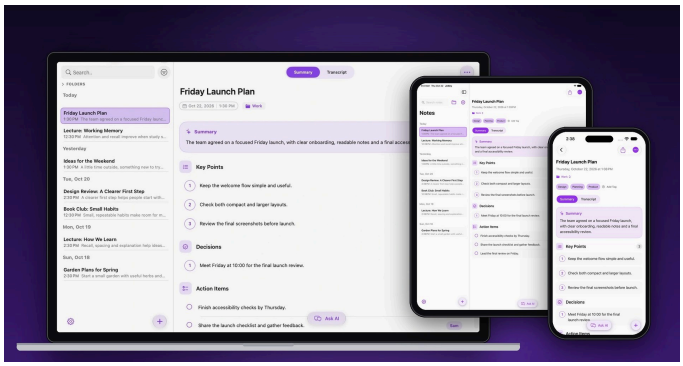
- Google IT Automation with Python Professional Certificate
- NTT Gen AI White, Yellow and Green Belt
- NTT DATA Agile and Scrum Internal Certification
- GitHub Copilot Certified
- Google AI Essentials

6 Industries

Manufacturing, utilities and energy, automotive, retail and shopping centers, IoT and connected hardware, sweepstakes and promotions, entertainment and consumer brands

7 Selected work

My client work is confidential, so these are my own builds from Protomota.



Jotley

Fig. 2

Private AI notes for Mac, iPhone and iPad. Transcribes speech live, then summarizes and answers questions on the device with Apple Intelligence.

Built solo: concept, design, development, marketing and training materials. On the App Store.

Swift, SwiftUI, Apple Intelligence, iCloud

jotley.ai



PulseCanvas Studio

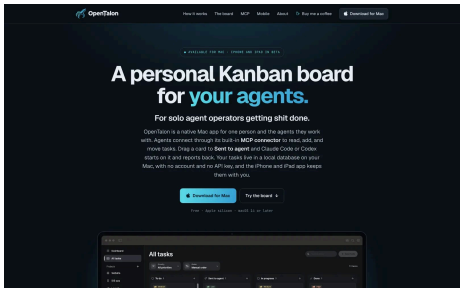
Fig. 3

Music visualizer and video maker for Mac, iPhone, iPad and Apple Vision Pro. Finds the beat, splits the song into sections and plays native visualizers and MilkDrop effects.

Built solo: concept, design, development, marketing and training materials. On the App Store.

Swift, SwiftUI, Metal, export up to 4K at 60 fps

pulsecanvas.ai

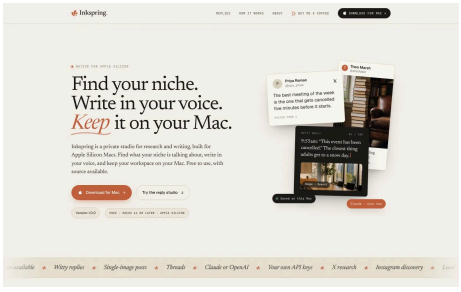


OpenTalon

Fig. 4

A personal Kanban board for you and your AI agents. Claude Code and Codex agents pick up tasks through its built-in MCP connector and report back. Tasks stay in a local database on your Mac, with no account.

opentalon.ai

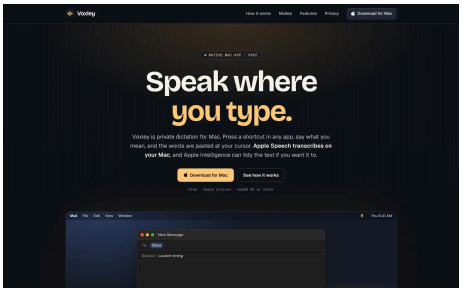


Inkspring

Fig. 5

A private studio for research and writing on Apple Silicon Macs. Find what your niche is talking about, write posts in your voice and keep the workspace on your Mac.

inkspring.ai

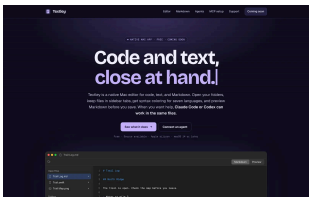


Voxley

Fig. 6

Private dictation for Mac. Press a shortcut in any app and speak; Apple Speech transcribes on your Mac, and Apple Intelligence can tidy the text.

voxley.si

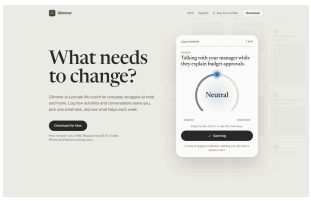


Textley

Fig. 7

A Mac editor for code, text and Markdown. Open your folders, preview Markdown, and let Claude Code or Codex work in the same files.

textley.ai



Glimmer

Fig. 8

A gentle spiritual life coach for minds too busy thinking. Check your energy, pick one small thing, and notice what actually helps.

glimmertoday.com



AI Resource Pro

Fig. 9

Free tutorials and videos for learning AI by building with it: Claude and Codex best practices, computer-use agents and open-weight models on your own GPU.

airesourcepro.com

youtube.com/@airesourcepro

More work protomota.com github.com/protomota newsletter.protomota.com x.com/protomotalab