

# SPENCER D'AVIS

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## PROFILE

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Full-stack developer and AI systems builder who ships end-to-end — from production web platforms to AI automation pipelines to iOS apps. Built the entire technical stack for a 60+ property real estate portfolio: 15 production applications, 1,670+ commits, and \$88K/year in vendor costs replaced with in-house code. Led ChatGPT Enterprise rollout from zero to 48 users, deployed Gemini OCR pipelines processing 1,000+ receipts monthly, and built integrations across Yardi, Microsoft Graph, and Google APIs.

## EXPERIENCE

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**Technical Systems Developer & Marketing Manager** | Bonavista Management | Seattle, WA July 2024 – Present

- **Built 15 production applications** from scratch for a 60+ property portfolio including a maintenance work order system (5,000+ orders tracked), an admin portal managing 1,500+ receipt records, and a Chrome extension bridging a legacy property management system with no public API.
- **Shipped BVMaintenance iOS app** to the App Store with geofenced check-in, NFC tool checkout, Live Activities, and offline-first architecture using Swift and Capacitor. Used daily by maintenance teams.
- **Automated receipt processing with Gemini OCR** — extracts structured data from photographed receipts, validates against purchase records, and surfaces discrepancies. Replaced 100% manual data entry, now processing 1,000+ receipts per month.
- **Led ChatGPT Enterprise adoption** from evaluation through executive demos, procurement, and organization-wide rollout across 48 users. Built custom GPTs for accounting automation and property investment letters. Tracked usage patterns and ran targeted outreach when teams underutilized features.
- **Replaced \$88K/year in vendor contracts** with in-house solutions — including a WordPress plugin syncing live RentCafe data to 60+ property websites with Seattle's MFTE affordable housing filter, displacing a \$71/site/month SaaS vendor.

**Recruiting Coordinator** | Meta (via CWX) | Menlo Park, CA Jan 2022 – Jan 2023

- **Coordinated 300+ interview loops monthly** for RealityLabs IC4+ hiring, managing resource allocation across constrained interviewer pools during high-volume hiring sprints. Led biweekly all-hands presentations and Microsoft 365 training sessions.

**COVID-19 Contact Tracer** | Washington DOH (via Aerotek) | WA Dec 2020 – Jan 2022

- **Managed high-volume confidential case data** across state databases with strict privacy requirements. Conducted structured outreach and documented findings in compliance systems.

**Online Marketing Specialist** | Arvato Bertelsmann (Adobe Program) | Remote June 2017 – Oct 2019

- **Managed Adobe's global affiliate marketing program** across multiple regions, running A/B-tested email campaigns to 30,000 subscribers and delivering weekly KPI reports. Drove 20% open rate improvement over 6 months.

## PROJECTS

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**Tablo-News** | Production Application | tablo.news 2025 – Present

- **Semantic search pipeline** using ChromaDB vector database, Whisper transcription, and nomic-embed-text embeddings via Ollama. FastAPI endpoint accepts natural language queries and returns ranked results with source attribution and relevance scoring.
- **Voice fingerprinting system** using SpeechBrain ECAPA-VOXCELEB audio embeddings with cosine similarity matching for cross-broadcast speaker tracking. Full stack: Python, FastAPI, Next.js/React, SQLite + Turso.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, Swift, PHP, SQL, Bash

**Frontend:** React, Next.js, React Native, Capacitor, WordPress, ShadCN, Tailwind CSS

**Backend:** Node.js, FastAPI, REST APIs, OAuth 2.0, Webhooks, Cloudflare Workers

**AI & Automation:** Google Gemini, OpenAI API, ChatGPT Enterprise, Whisper, ChromaDB, Ollama, RAG architectures, prompt engineering, MCP, Modal (GPU compute)

**Infrastructure:** Cloudflare, Vercel, AWS S3, Nginx, Ubuntu/Linux, Git, Docker, MySQL, SQLite, Turso

**Integrations:** Yardi, RentCafe, Matterport, Microsoft Graph API, Google Business Profile, Apple Business Connect, Apple MapKit, Foursquare, PostHog

## **EDUCATION**

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**Self-Directed Computer Science & Software Engineering** — Equivalent practical experience since 2017