DJ Dinnebeil

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SUMMARY

Backend-focused software engineer experienced in APIs, data workflows, AI-driven applications, and full-stack platforms. Skilled in building production-ready systems that integrate databases, backend services, user interfaces, and external tools from design through deployment, testing, and iteration.

TECHNICAL SKILLS

Languages: Python, JavaScript, PHP, SQL, C++, C, HTML/CSS
Backend: Django, FastAPI, Flask, REST APIs, Node.js, Express
Databases: PostgreSQL, MariaDB, SQLite, Qdrant, vector search, relational database design
AI & ML: LangChain, LangGraph, Hugging Face, TensorFlow, RAG, RAGAS, LLM APIs
Frontend & UI: React, Redux, Vite, Streamlit, Jinja2, responsive web design
Infrastructure & Tools: Git, GitHub, Linux, Docker, AWS S3, Firebase, DDEV, cPanel
Engineering: Agile development, SDLC, system design, debugging, automated testing, secure coding

PROJECT EXPERIENCE

KDAK Properties | PHP, MariaDB, Docker/DDEV, cPanel | Live: kdakproperties.com/platform
Freelance full-stack application built for a residential property management company.

- Developed and deployed a role-based property management platform with admin and tenant portals for rent payments, lease access, maintenance requests, and payment history.
- Designed administrative tools for tenant account management, payment review, maintenance workflows, and activity logging to improve operational oversight and security.
- Automated rent payment tracking with scheduled cron jobs that process bank notifications from a dedicated inbox and update tenant payment histories for online and cash transactions.

Historical Research Assistant | Python, LangChain, Qdrant, RAGAS | Code: djdinn.dev/history-rag
AI-powered research assistant for evidence-based document retrieval, evaluation, and source validation.

- Developed a document-grounded RAG application for context-aware retrieval of historical sources, improving research efficiency and reducing time spent on manual document review.
- Designed a file processing pipeline to parse source materials, generate embeddings, handle metadata, and support Qdrant-backed semantic search with optional web cross-verification.
- Applied RAGAS-based evaluation and Cohere reranking to improve retrieval relevance, answer grounding, and query-to-document alignment.

Auto Core | C++, Win32 API, SQLite, Firebase | Code: djdinn.dev/autocore
Windows utility for streamlining task execution and desktop automation.

- Built a C++ keyboard automation utility with the Win32 API to intercept key events and execute user-defined commands for taskbar navigation, text insertion, and custom shortcuts.
- Implemented a modular component architecture with named-pipe communication, SQLite-backed local storage, and Firebase sync for runtime configuration and cross-device user settings.
- Optimized key-mapping performance with configurable execution modes, cutting per-call overhead from 75–90 µs to 0.20–0.35 µs by replacing file-based mappings with hardcoded mappings.

EDUCATION

AI Makerspace — AI Engineering Certificate, 2025
App Academy — Software Engineering Certificate, 2024
Stockton University — B.S. in Computer Science, 2022; M.A. in American Studies, 2018; B.A. in Economics, 2015
Honors: Certificates of Distinction in Honors and Service; Distinguished Research Fellowship

MILITARY EXPERIENCE

United States Coast Guard Reserve — Electronics Technician, 2007–2013
Honors: Exceptional Merit Award; Honor Graduate