

# JEREMIAH EMRICH

Python Backend Developer · Full-Stack Django · AI/LLM Applications

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## SUMMARY

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Python backend developer with a portfolio of production AI/LLM applications, a live client booking platform, and multiple full-stack Django projects — all designed, deployed, and maintained independently. Experienced in server-side application design, REST API development, PostgreSQL database management, and cloud deployment. Hands-on with LangChain, LangGraph, RAG pipelines, and the OpenAI API. Leverages AI-assisted coding tools (Claude, Copilot) daily to accelerate development. Passionate about continuous learning and shipping scalable, well-tested software. Seeking a remote Python or backend role where I can build real things and grow fast.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript (ES6+), SQL, HTML, CSS

**Backend:** Django, Django REST Framework, REST API design, server-side architecture, PostgreSQL, SQLite, token authentication, Agile development

**AI / LLM:** OpenAI API, LangChain, LangGraph, RAG pipelines, ChromaDB, vector search, structured output, prompt engineering

**Frontend:** React, responsive UI, data visualization, Streamlit

**Infrastructure:** Railway, Docker, AWS, Git, GitHub Actions, CI/CD pipelines

**Testing:** pytest, unit testing, test planning

**Data:** Pandas, NumPy, Scikit-learn, Plotly, Jupyter Notebook

**AI Dev Tools:** Claude Code, GitHub Copilot, Cursor

## EXPERIENCE

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**Freelance Web Developer** | Self-Employed

2025 – present

- Designed and built a full-stack booking platform for a real client — custom appointment booking system with approval workflow, service menu management, and mobile-optimized admin dashboard (erintheestie.com)
- Owned full software development lifecycle: requirements gathering, iterative delivery, server-side logic, database schema design, and ongoing maintenance
- Integrated Gmail SMTP for automated booking notifications; deployed to Railway with custom domain and PostgreSQL database
- Collaborated directly with client to align server-side functionality with real-world business needs — managing scope, feedback cycles, and feature prioritization

## PROJECTS

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**Job Application Assistant (AI)** *Django · LangChain · OpenAI · ChromaDB · Railway* Apr 2026

- Built a full-stack RAG application — parses resume PDFs, embeds content into a vector store, retrieves context to score job match percentage and generate tailored cover letters using GPT-4o-mini with structured output
- Demonstrates end-to-end LLM product ownership: PDF parsing pipeline, vector embeddings, OpenAI API integration, scalable REST API design, and production deployment with custom domain

**Hunting AI Assistant (AI)** *Django · LangGraph · LangChain · OpenAI · Railway* Apr 2026

- Engineered a LangGraph state machine agent with multi-node query routing across 10+ topic domains — routes plain-English queries to live weather tools, knowledge base Q&A, and persistent conversation memory
- Designed specifically to prevent hallucination on regulation-sensitive topics; demonstrates ability to design, test, and ship production agentic AI systems end to end

**WeatherRack** *Django · Open-Meteo API · PostgreSQL · Railway* Mar 2026

- Integrated Open-Meteo REST API to retrieve 10-day forecast data; implemented multi-variable scoring logic across wind, barometric pressure, temperature, and moon phase to rank optimal hunting days

- Location management, responsive dark-mode UI; deployed to Railway with custom domain and PostgreSQL backend

**FAA Aviation Incident Dashboard** *Python · Pandas · Plotly · Streamlit* *May 2026*

- Built an interactive dashboard analyzing 39,000+ US aviation incidents from the NTSB database — dynamic filters, KPI metrics, trend analysis, and a US choropleth map
- Domain expertise as an FAA-certified A&P mechanic informed data interpretation beyond raw numbers; demonstrates real-world data handling and analysis at scale

**Budget App** *Django REST Framework · React · PostgreSQL · Railway* *Jan – Mar 2026*

- Full-stack budget tracker — DRF backend with REST API, token authentication, and full CRUD endpoints; React frontend with expense visualization and chart breakdowns
- Includes pytest unit tests and GitHub Actions CI/CD pipeline; continuously deployed to Railway

**GolfBros** *Django REST Framework · React · PostgreSQL · Railway* *Feb 2026*

- Full-stack golf community platform — players log rounds, share course reviews, and track performance; DRF backend with user authentication and full CRUD, React frontend with integrated server-side logic

**RAG Pipeline Fundamentals** *Python · ChromaDB* *Apr 2026*

- Built a RAG pipeline from scratch to deeply understand chunking, embeddings, vector search, and retrieval before applying concepts to production AI applications

## EDUCATION

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**B.S., Computer Science** | University of Maryland Global Campus *Expected 2027*

*Relevant coursework: Algorithms, Data Structures & Algorithms, Databases, Software Engineering*

**A.A.S. — FAA Certified Airframe Mechanic** | WSU Tech *2019 – 2021*