Kai Breese

925-786-5550 | kai.breeze@me.com | linkedin.com/in/kaibreese | github.com/ninjakaib

EDUCATION

University of California San Diego
La Jolla, CA
Bachelor of Science in Data Science
Sep. 2021 – March 2025

EXPERIENCE

Machine Learning Engineer Intern
June 2024 – Present
XiFin, Inc.
San Diego, CA

- Developed private GitHub Copilot alternative using open-source LLMs and AWS SageMaker, implementing context-aware code suggestions, inline editing, and real-time autocomplete while ensuring data privacy
- Engineered high-performance healthcare pricing data parser achieving 100x faster processing speed and 75% storage cost reduction through optimized multi-threading and database normalization
- Built self-improving SQL query generation system with RAG capabilities, enabling data engineering team to efficiently generate complex queries across hundreds of databases
- Enhanced company-wide chatbot with streaming responses and multimodal capabilities, reducing hallucination rate and improving answer quality through advanced RAG pipeline
- Architected automated insurance appeal letter system using knowledge graphs and multimodal LLMs, significantly reducing manual processing time for denial management team

Lead Developer
Apr. 2024 – July 2024
Clayton Health, LLC
San Diego, CA

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Sales Consultant
Oct. 2023 – Apr. 2024
Verizon
San Diego, CA

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Computer Science Tutor
Mar. 2023 – Feb. 2024
TheCoderSchool
San Diego, CA

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PROJECTS

Machine Learning Accelerator Chip | *Python, Flask, React, PostgreSQL, Docker*
Sept. 2024 – Present

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AI Healthcare Assistant | *Spigot API, Java, Maven, TravisCI, Git*
June 2023 – Oct. 2023

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TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, C/C++
Frameworks: FastAPI, Flask, Svelte,
Developer Tools: Git, Docker, AWS, VS Code
Libraries: pandas, NumPy, Langchain