Jack Thomas

jack@jack-thomas.com | (424) 241-0782 | LinkedIn | Github

Full-Stack Engineer | AI Systems | Creator of TradeCRE

Education
B.S. Computer Science | California State University, Fullerton, CA | May 2026

GPA: 3.96

Professional Experience
Founder & Full-Stack Engineer | TradeCRE | tradecre.com
June 2024 – Present

- Architected and deployed a **secure SaaS platform** for commercial real-estate transactions (Django, React, PostgreSQL, Docker).
- Implemented **end-to-end AES/RSA encryption**, ensuring user data remains private even from the server.
- Integrated **AI-powered assistant** using OpenAI API to assist with deal analysis and task management.
- Deployed scalable cloud infrastructure with **Docker Compose + Nginx reverse proxy**, serving production traffic.
- Continuously iterated on UX and product direction, leading engineering, infrastructure, and design single-handedly.

AI & ML Projects

- Developed a **multi-agent reinforcement learning (MADDPG)** model in SUMO for optimizing urban traffic lights.
- Built **XGBoost-based real-estate price predictor** using LA County assessor data with Dask for scalability.
- Integrated **ChatGPT-based assistant** into TradeCRE to perform data analysis under user consent.
- Currently building OKC — document ingestion + entity extraction + topic graphs for 5k+ docs.

Key Strengths

- **Problem-Solving:** Skilled at breaking down complex issues into actionable solutions.
- **Continuous Learning:** Proactively acquire skills in emerging technologies.
- **Entrepreneurship:** Proven ability to build and execute innovative ideas independently.