

Jack Thomas

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Full-Stack Engineer | AI Systems | Creator of TradeCRE

Education

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

GPA: 3.96 / 4.0

Professional Experience

Founder & Full-Stack Engineer | TradeCRE | tradecre.com

June 2024 – Present

- Designed and built a production SaaS platform for commercial real-estate transactions, including deal tracking, document management, and team collaboration
- Implemented end-to-end encryption using AES-256 and RSA key wrapping to ensure sensitive user data remains inaccessible to the server
- Integrated **AI-powered assistant** using OpenAI API to assist with deal analysis and task management.
- Deployed containerized production infrastructure using Docker Compose and Nginx reverse proxy, supporting secure API access and live traffic
- Owned the full engineering lifecycle: system design, backend APIs, frontend state management, infrastructure, security, and deployment

AI & ML Projects

- Built a multi-agent reinforcement learning (MADDPG) system in SUMO to optimize urban traffic light coordination
- Developed a scalable real-estate price prediction pipeline using XGBoost, Dask, and public assessor datasets
- Building OKC: a large-scale document ingestion and entity extraction pipeline (5k+ documents), producing structured topic graphs for downstream reasoning and retrieval

Technical Focus

- Full-stack systems: Django, React, PostgreSQL, REST APIs
- Infrastructure & security: Docker, Nginx, encryption, auth
- Applied ML: RL, tree-based models, data pipelines, LLM integration