

# Tanner Eischen

FULL STACK DEVELOPER & DATA-DRIVEN SCIENTIST

Developer with a strong STEM foundation and an interest in using AI-first methodologies to solve real-world problems. Experience includes seismic ML modeling, full-stack development with React/Node, QA/fine-tuning for LLM prompts and responses, and integrating agentic workflows and rapid prototyping across front- and back-end stacks. Skills include self-directed learning, critical analysis, solution architecture, adaptability, user empathy, and end-to-end implementation.

## Recent Projects

### DissertAI

AI-first academic writing assistant and modular **React app integrated with Sapling API** for inline error detection and correction suggestions, and LLM-powered tools for academic language optimization, literature suggestions, abstract synthesis, and virtual committee reviews using **OpenAI API**. (github.com/Tanner-Eischen/DissertAI)

### Leafwise

Social networking platform for plant/gardening hobbyists that combines **React frontend** and Supabase+Express backend. Text, image, and video messaging, community connections, camera with real-time **PlantNet API** species ID through , **RAG** enhanced suggestions and content discovery, and **vector search** for problem diagnosis and care tips.. (github.com/Tanner-Eischen/Leafwise)

### AmazonKDP NicheHunter –

LLM-assisted market research dashboard for Kindle publishing. Uses Streamlit and Selenium to scrape, rank, and visualize low-competition book niches for profitable publishing ideas.. Engineered scoring heuristics (trend, competition, demand) and automated analysis pipeline. (github.com/Tanner-Eischen/AmazonKDP\_NicheHunter).

## Relevant Experience

### Full stack Developer - Hack the Gap - 02/2025-present

Built responsive React frontends and Node/Express APIs for rapid prototyping.. Emphasized modular logic, error handling, and clean architecture in MVP tools.

### AI/LLM Specialist - Outlier AI - 08/2023-present

Generated and tested prompt inputs, reviewed and edited LLM outputs, and developed fine-grained evaluation criteria to improve model correctness, clarity, and reasoning across STEM and applies science domains. Contract work.

### Research Assistant (Geophysics and Machine Learning) - UTexas at Austin - 08/2020-08/2023

Near-zero prior experience in physics and or computer science, and unpredictable nature of marine seismic surveying taught me to be adaptable and determined. Applied ML pipelines to multi-gigabyte databases using **Python (Pandas, NumPy, Seaborn)**.

## Education

University of Texas at Austin\ PhD coursework (ABD), Geophysics – 2020–2023

East Carolina University\ M.S., Geological Sciences – 2020

Gustavus Adolphus College\ B.A., Geology – 2017

## Links

<https://www.linkedin.com/in/tanner-eischen/>

<https://www.github.com/Tanner-Eischen/> - Github profile for more project examples (DissertAI/, LeafWise/, etc.)

<https://www.axial3dexpedition.com/p/the-expedition.html> - Oceanic research expedition and seismic surveying.