Alex Rendler

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EDUCATION

University of Arizona, College of Science   **Tucson, AZ**
Bachelor of Arts in Computer Science   Grad Date May 2024
Minor: Business Administration
Honors: Viviane & Steve Franklin Scholarship, Arizona Recognition Award

PROFESSIONAL EXPERIENCE & PROJECTS

Alcademy - *AI-Enhanced Educational Platform (React, TypeScript, Supabase, OpenAI)*   San Diego, CA
Backend Developer   Jan. 2025 – Current
- Developed and deployed a full-stack AI tutoring assistant with real-time, context-aware chat powered by OpenAI.
- Engineered backend data pipelines to track user performance, lesson metadata, and quiz history using Supabase (PostgreSQL).
- Integrated real-time data feedback loops for student interactions, supporting analytics and AI model refinement.
- Applied prompt engineering and fallback strategies to ensure high-reliability AI interactions.
- Collaborated cross-functionally to align AI capabilities with pedagogical goals and user data privacy needs..

Nexus Brokerage *(AI Crypto Portfolio Platform – React, Svelte, Supabase, Node.js)*   Remote
Backend Developer   Jan. 2024 – Current
- Built data models and secure APIs for real-time investment risk profiling using Python and Supabase.
- Structured and optimized data pipelines across 3,000+ crypto assets for trend analysis and volatility metrics.
- Implemented role-based access control (RBAC), ensuring secure and reliable data delivery for diverse user roles.
- Participated in agile sprints with GitHub version control, Jira tracking, and CI/CD deployment workflows.

StatsX (Solo Project – React, Python, SQL, AWS, AI Integration)   San Diego, CA
Full Stack Developer   Oct. 2024 – Current
- Designed and deployed predictive sports analytics platform for NFL player props using custom ML models (75%+ accuracy).
- Built end-to-end data ingestion and transformation pipelines using Python and SQL for weekly stat updates.
- Developed PostgreSQL schema and trend-reporting APIs to support player analysis and prop projections.
- Emulated industry-standard practices including Scrum sprints, Jira tasking, and modular code reviews.
- Leveraged AWS S3 and Lambda (via local emulation) for data storage and batch processing.

Aevex Aerospace (Software Engineering Internship – C++, JavaScript, Jira)   San Diego, CA
Software Engineer Intern   Jul. 2022 – Aug. 2022
- Gained exposure to Linux/Unix environments for testing and configuration of aerospace software modules.
- Adhered to secure coding standards and Agile workflows within a DoD-adjacent engineering environment.
- Participated in software QA cycles and Jira task management for internal system enhancements.

ACADEMIC EXPERIENCE

Sigma Alpha Mu (Leadership, Communication, Innovation)   Tucson, AZ
Vice President of Communications, Philanthropy Chair   Aug. 2021 – May 2024
- Led communication efforts and managed operations for an 80+ member chapter, improving cross-team collaboration.
- Organized and executed philanthropic events raising over $8,500, demonstrating initiative, adaptability, and leadership skills valued in project collaboration environments..

TECHNICAL SKILLS

Languages & Frameworks: JavaScript (ES6+), TypeScript, React (16+), Node.js, Python, C++, HTML, CSS
Tools & Practices: Git, Scrum/Agile SDLC, CI/CD, Responsive Design, Secure Coding, Clean Code
AI & Data Tools: PostgreSQL, Supabase, OpenAI API, Prompt Engineering, Supabase Vector, LangChain (basic), REST APIs
Other: REST APIs, Linux/Unix, Jira, Version Control