Ethan Rickert

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GitHub: Ethan0429
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Education

University of Tennessee, Knoxville
Bachelor of Science (B.S.) in **Computer Science**   **4 years**
GPA: **3.64**
Relevant Courses: **Data Structures & Algorithms**, **Software Engineering**, **Operating Systems**, **Compiler Design**

Professional Experience

DataAnnotation Tech
Data Analyst   **04/2022 - 08/2024**

- Assess the accuracy and relevance of LLM-generated responses in coding and software engineering.
- Conduct quality checks to ensure consistency and correctness in annotated data.
- Evaluate responses within the context of software engineering, providing feedback for model improvement.
- Label and categorize data according to project-specific criteria.

KeyLogic (DOE/OSTI)
Data Engineer   **10/2024 - Present**

- Set up automated data ingestion jobs and organized storage directories for raw data from four major sources including OpenAlex, PubMed, SAM.gov, and ROR, ensuring data integrity and accessibility.
- Developed and maintained custom ETL pipelines using Python, Pandas, and NumPy, which abstractly handle multiple data sources and can be easily extended. Applied specialized aggregate transformations to process approximately 300GB of data monthly, tailored to customer requirements.
- Designed and managed a PostgreSQL-based data storage system, creating optimized tables for each data source processed by the ETL pipeline, ensuring efficient data retrieval and scalability.

Personal Projects

knowyourinfluencer.io - YouTube transcript seeker
https://knowyourinfluencer.io

- Full stack web application using **Svelte/SvelteKit**, **Tailwindcss**, **Typesense**, and **TypeScript**.
- Queries a database of transcript snippet records of **10,000+** videos and instantly displays matching results and the corresponding link to the timestamp in the video in which it occurs.
- Built from the ground up and deployed using railway.app and implemented for several popular YouTubers.

UTK Authentication Service
https://github.com/Ethan0429/utk-auth

- Developed a Discord bot in **Python** that authenticates UTK students via email by linking their Canvas course status to their UTK credentials.
- Successfully authenticated over **300** students in the official course Discord server.

CS 102 Writeups - CS Reference Site
https://ethan0429.github.io/cs102-writeups/

- Created a static documentation site built and deployed using Docusaurus to leverage **React**, **TypeScript**, markdown, and **Tailwindcss**.
- Used as a reference site for college-level computer science course material by over **100** students per semester.

Skills

- **Programming Languages:** C/C++/C#, Python, Java, JavaScript/TypeScript, SQL
- **Web Technologies:** React, Svelte/SvelteKit, Vue, AWS
- **Operating Systems:** Linux, MacOS, Windows
- **Other Skills:** Git/GitHub, PostgreSQL, MySQL, Pandas, NumPy