

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**

2019 - 2023 (Expected)

GPA: 3.64

Relevant Courses: **Data Structures & Algorithms, Software Engineering, Operating Systems, Compiler Design**

Professional Experience

University of Tennessee, Knoxville

Undergraduate Teaching Assistant

01/2022 - Present

- Provided quality assistance to students and instructors in freshman-level computer science courses.
- Assisted over **150** students with coursework and educational material involving **C++** concepts.

University of Tennessee, Knoxville

Tutor/Supplemental Instruction Leader

08/2021 - Present

- Communicated computer science concepts effectively to classes of **20-30** students and in one-on-one sessions.
- Aided students in improving their computer science course GPA by **25%** on average.

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 **2,000+** 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.

LootLord & LootEveryone - Video Game Mod

<https://www.nexusmods.com/mods/294>

- Developed a video game mod for Mount & Blade Bannerlord 2 written in **C#/.NET** using TaleWorld's proprietary game engine.
- The mod extends game functionality to over **150,000** players and accrued over **200,000** total downloads in less than **2** years.

CS 102 Writeups - University Computer Science 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
- **Web Technologies:** React, Svelte/SvelteKit
- **Operating Systems:** Linux, MacOS, Windows
- **Other Skills:** Git/GitHub