Zenna Allwein

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EDUCATION

University of Texas at Dallas   *August 2023 - Present*
B.S. in Computer Science & Engineering
Current GPA: 3.86

EXPERIENCE

H-E-B   May 2025 - August 2025
Software Engineering Intern   *San Antonio, Texas*

· Instrumented application with read replica, offloading analytic workloads to decrease pressure on primary database
· Contributed work to decrease technical debt and unify application core data model

H-E-B   May 2024 - August 2024
Software Engineering Intern   *San Antonio, Texas*

· Implemented supplier order accountability tracking as a supply chain optimization measure
· Added new REST endpoints to facilitate order management from legacy front end as part of off of mainframe service migration

H-E-B   June 2023 - August 2023
Highschool Software Engineering Intern   *San Antonio, Texas*

· Contributed to the development of a supply chain optimization system using Haskell, PostgreSQL, and Google Cloud Platform
· Developed components for a production support admin dashboard using NextJS, Typescript, and Tailwind-CSS

INVOLVEMENT

NAME: Not Another MIPS Emulator   September 2024 - Present
github.com/cameron-b63/name   *Core Developer*

· Implemented friendly MIPS assembler front end including lexing, preprocessing and parsing to support student computer architecture education
· Managed issue tracking with Github project management utilities
· Improved integration with rust cargo tooling to improve testing ergonomics

UTD CSG Competitive CTF Team   September 2024 - Present

· Solved programming category SunshineCTF 2024. Automated git repository forensics and found flags.
· Participated in attack/defense FaustCTF 2024. Secured team vulnbox flask app from SQL injection. Discovered memory vulnerability in chat application.

SKILLS

Programming Languages	Haskell, Rust, Python, JavaScript, C, OCaml
Databases	PostgreSQL
Misc	Linux, Bash, Docker, Terraform, Git, Bash, Neovim, Datadog