

Ethan Reece

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Education

Master of Science in Computer Science (Systems Track)

The University of Texas at Dallas Richardson, TX

Expected Graduation: December 2026

Current GPA: 4.000

Bachelor of Science in Computer Science

The University of Texas at Dallas Richardson, TX

December 2025

GPA: 3.825

- Computer Science Fast Track Program
- Collegium V Honors Program, National Merit Scholars Program
- Jonsson School Dean's List (Spring 2025, Fall 2025), Cum Laude

Skills

Programming Languages Rust, C++, C, C#, JavaScript, Java, Python

DevOps and System Administration Nix, Linux, Git, Docker, Proxmox, Terraform, GitHub Actions

Layout and Web Development Typst, React, HTML, CSS, ASP.NET, Express.js, LaTeX

Projects

configuration-manager: Modular Multi-System Configuration Tool

July 2024 – Present

Productivity

Nix Flakes/flake-parts/devenv, Linux, Terraform, SOPS, Git

- Define device configurations for Linux and other systems through a set of configuration files, grouping related configurations into shared modules.
- Lock program versions using Nix Flakes, reducing variations and allowing rollbacks.

Homelab Administration

2020 – Present

Productivity

Linux, Docker, NixOS, Terraform, Git, Proxmox, Hetzner, Cloudflare, SOPS

- Contain my files, tasks, projects, passwords, and other data on a self-managed server machine.
- Orchestrate Linux system and program configurations through Docker Compose and NixOS. Automate deployment of DNS settings and Hetzner configurations using Terraform integrations.

Fault-Tolerant Distributed Database System

April – May 2025

Course Group Project The University of Texas at Dallas

Rust/Tokio/Serde, Nix Flakes, TCP, Linux, GitHub, LaTeX

- Duplicates key-value pairs across three servers to tolerate up to two failures, using an architecture based on the one in Amazon Dynamo.
- Implemented using asynchronous programming and serialization libraries for TCP communication.

Experience

Research Intern Volunteer Role

June 2025 – August 2025

Syssec Lab, The Erik Jonsson School of Engineering and Computer Science at UT Dallas

Richardson, TX

GNU Make, GDB, TypeScript, React, Express.js, MongoDB, Docker, Python, GitLab

- Traced GNU Core Utilities using a Valgrind tool by modifying the test suite.
- Added features to a graph visualization platform designed for viewing system events.

Software Engineering Intern Internship

June – August (2022, 2023)

Scrumfish Software Nampa, ID

C#/ASP.NET, JavaScript/React, Microsoft SQL Server, GitHub, Jira

- Implemented API endpoints and rewrote a web UI for document annotation.
- Automated updates of email templates in an SQL database while working directly with the client.
- Documented all activities through Jira and GitHub pull requests.

Software Engineering Intern Internship

June – August (2022, 2023)

R-Technics, Inc. Boise, ID

Azure, Windows Server, Docker, GitHub Actions, C#, ASP.NET, MAUI, UIKit, Nix, GCC

- Improved the macOS implementation of a MAUI program, and wrote a program for API interaction using C#.
- Automated builds for a server application with Docker, and worked on build automation for FFmpeg and OpenSSL.
- Oversaw server upgrades and ensured smooth transitions for running programs.