

# Ethan Reece

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## Skills

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

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

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

## Education

### Bachelor of Science in Computer Science

The University of Texas at Dallas

Expected Graduation: December 2025

Current GPA: 3.768

- Computer Science Fast Track Program, Systems Track
- Collegium V Honors Program
- **Relevant Coursework**

**Completed** Programming Language Paradigms, Digital Logic & Computer Design, Operating Systems Concepts, Data Structures & Algorithmic Analysis, Software Engineering, Systems Programming in UNIX, Computer Architecture (CS 2340), Database Systems, Cyber Attack & Defense Lab, Computer Architecture (CS 6304), Advanced Operating Systems

**Current** Design and Analysis of Computer Algorithms, Computer Networks, Real-Time Systems

## Work Experience

### Scrumfish Software

Nampa, ID

June – August (2022, 2023)

Software Engineering Intern

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

- Developed ASP.NET APIs for data management, multifactor authentication, and document conversion.
- Created a React-based UI for a book critique platform, supporting document viewing, sharing, and annotation.
- Automated the update of email templates in the database using SQL and PowerShell scripts.

### R-Technics

Boise, ID

June – August (2022, 2023)

Software Engineering Intern

Azure, Windows Server, Docker, C#/ASP.NET

- Supported server maintenance through update research, implementation, and monitoring.
- Developed a C# program to fetch song lyrics and metadata from an API, later integrated into the main product.
- Enhanced a server application with Docker and Linux support; established an Azure DevOps pipeline for build automation.

## Projects

### Declarative Laptop Configuration

Personal Project

July 2024 – Present

Linux, Guix/Guile, Nix, Git

- Leverage Guix and Nix to centralize my laptop user configuration for tracking history and improving maintainability.
- Utilize the "time-machine" function to ensure consistent software versions and to allow rolling back.

### Personal Server Administration

Personal Project

2020 – Present

Linux, Docker, Nix, Terraform, Git, Proxmox, Hetzner, Cloudflare

- Manage a physical server using Proxmox, Debian VMs, and Docker for several applications.
- Host various services including Forgejo, TrueNAS, Nextcloud, and Vaultwarden.
- Use Terraform with NixOS, Hetzner, and Cloudflare integrations to centralize configurations for a VPN used to navigate CGNAT limitations.

### Failure-Resistant Distributed Database System

Course Group Project

April – May 2025

Rust, Tokio, Serde, Nix, TCP, Linux, GitHub

- Implemented a basic distributed database system with an architecture similar to Amazon Dynamo, designed to tolerate a small number of server failures.
- Demonstrated that transaction logs remain totally ordered, even under a high load.