Ethan Reece

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Skills

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

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   Expected Graduation: December 2025
The University of Texas at Dallas   Current GPA: 3.801

– 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

Software Engineering Intern   June – August (2022, 2023)
Scrumfish Software   Nampa, ID   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.

Software Engineering Intern   June – August (2022, 2023)
R-Technics   Boise, ID   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   July 2024 – Present
Personal Project   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   2020 – Present
Personal Project   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   April – May 2025
Course Group Project   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.