

Jackson Terrill

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Education

Northeastern University

Sep 2021 — Dec 2024

Bachelor of Science in Computer Science and Business Administration

Boston, MA

- Cumulative GPA: 3.95/4.00 | Dean's List, University Honors Distinction, National Merit Scholarship
- Relevant Coursework: Software Development, Computer Systems, Networks, Algorithms, Object-Oriented Design, Database Design

Experience

Fullstack Software Engineer

Jan 2024 — Present

Proof

Boston, MA

- Implemented a customer-facing fraud detection suite by integrating with third-party risk analysis APIs to reduce fraudulent activity and bolster transaction trust
- Refactored expensive, polling-based state synchronization systems to use lightweight, event-based partial updates transmitted through WebSockets
- Ported build systems and development environments to Nix to improve build reproducibility and caching, simplify deployment pipelines, and enhance developer experience
- Built and maintained monitoring libraries for two microservices to enable runtime observability in production
- Improved codebase reliability by introducing Sorbet type-checking into Rails and migrating legacy JavaScript to TypeScript, eliminating type errors and preventing regressions while enabling fearless refactoring

Chief of Software | Tech Lead

Sep 2023 — Dec 2024

Generate@Northeastern

Boston, MA

- As a Chief of Software, designed technical assessments, established development best-practices, and hosted knowledge sharing sessions
- As a Tech Lead, led teams to create a 3D printer sharing service and an event discovery app with Go and TypeScript
- Guided project architecture discussions, delegated tasks, and reviewed developer pull requests
- Managed client relations and facilitated timely completion of project milestones

Backend Networking Developer (Co-op)

Jan 2023 — Aug 2023

VMware

Boston, MA

- Refactored REST endpoints in Java to enforce strict type validation, enabling efficient querying and filtering of available network resources in Cloud Director
- Implemented Raw Port-Protocols for Edge Gateways, a new feature allowing anonymous TCP/UDP port traffic configuration on firewall rules
- Developed and documented new firewall synchronization features in response to critical client requests
- Restored backward compatibility for firewall configurations on legacy virtualization platforms (NSX-V)

Software Engineer (Intern)

Jun 2021 — Dec 2022

Federal Reserve Bank of St. Louis

St. Louis, MO

- Created and maintained a certification reporting tool with Python, SQLite, and the SharePoint API
- Built and published an Alexa skill for public educational resources using the ASK SDK for Node.js

Projects

snekcheck (github.com/jtrrll/snekcheck)

Oct 2024 — Present

- Built an opinionated filename linter that loves snake_case to streamline bulk file operations
- Wrote comprehensive unit tests and end-to-end regression tests
- Released v0.1.0 as a Go application packaged with Nix

dotfiles (github.com/jtrrll/dotfiles)

Jun 2024 — Present

- Used Nix and Home Manager to declaratively configure tools and systems
- Modified frequently to improve development workflow and decrease cognitive load

portfolio (jtrrll.com)

Oct 2025 — Present

- Designed a personal website to showcase software projects, music, and art with Go and Templ
- Rewrote a previous SvelteKit iteration to drastically improve responsiveness and maintainability

mona

Apr 2024 — Nov 2024

- Built a terminal image viewer in Go that converts images into low-resolution colorful ASCII art
- Implemented an edge detection kernel for improving legibility and various color palette options
- Supported various color depths, and multiple file formats including PNG, JPEG, and GIF

mini.fs

Dec 2022 — Dec 2022

- Built a portable 1MB file system with C and FUSE that can be transferred between systems and mounted at will

mini.sh

Nov 2022 — Nov 2022

- Created a basic “POSIX-inspired” shell with redirection, pipes, sequencing, and grouping in C

Skills

- **Programming Languages:** Go, Nix, Ruby, TypeScript/JavaScript, Bash, Python, Rust, C, Racket, SQL, GraphQL, HCL, KQL, HTML/CSS, Haskell, Gleam
- **Frameworks:** Ruby on Rails, React, Svelte, SvelteKit, Astro, Tailwind CSS, Templ
- **Software:** Git, Linux, Docker, VS Code, Neovim, Sentry, Azure Data Explorer, Postman, Jenkins, GitHub Actions

Interests

Video Game Design/Development, Type Systems, Workflow Optimizations, Water Polo, Songwriting, Formula One