Jackson Terrill

Availability: January – August 2024

Boston, MA | (314) 651-6907 | terrill.j@northeastern.edu | linkedin.com/in/jacksonterrill

EDUCATION

Northeastern University   Sep 2021 – Present
Khoury College of Computer Sciences   Expected Graduation: Dec 2024
Candidate for Bachelor of Science in Computer Science and Business Administration   GPA: 3.98/4.00
Relevant Courses: Object-Oriented Design, Algorithms, Computer Systems, Networks, Database Design
Activities: Disrupt (FinTech Developer), IEEE (Treasurer), Men's Water Polo, WRBB 104.9 FM
Awards: University Honors Distinction, National Merit Scholar, Dean's List

TECHNICAL KNOWLEDGE

Languages: Java, TypeScript/JavaScript (React, Svelte), Go, Python, POSIX Shell, SQL, C, Rust, Racket
Software: Git, Postman, GitHub Actions, Linux, Vim, VS Code, IntelliJ IDEA, MySQL Workbench, Docker
Certifications: Deep Learning Specialization, Bloomberg Market Concepts, CITI Social and Behavioral Research

EXPERIENCE

Generate@Northeastern | *Tech Lead* | Boston, MA   Sep 2023 – Present
- Led a team of 6 developers to create a full-stack 3D printer sharing service with Go and TypeScript (React)
- Built a development environment, automated CI tests, and workflow scripts to improve DX and velocity
- Guided project architecture discussions, delegated tasks, and reviewed developer pull requests

VMware | *Back-End Networking Developer – Co-op* | Boston, MA   Jan 2023 – Aug 2023
- Refactored OpenAPI-compliant 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 request
- Restored backward compatibility for firewall configurations on legacy virtualization platforms (NSX-V)
- Applied test-driven development with TestNG to maintain high code coverage and detect regressions

Federal Reserve Bank of St. Louis | *Software Engineer* | St. Louis, MO   Jun 2021 – Dec 2022
- Created and maintained an internal certification reporting tool with Python, SQL, and SharePoint API
- Published an Alexa skill for public educational resources and hiring outreach using the ASK SDK for Node.js
- Adapted internal tools and dashboards to support migration from Universal Analytics to Google Analytics 4

Northeastern DATA Initiative | *Data Analyst* | Boston, MA   Jan 2022 – May 2022
- Delivered insights to client company regarding improvements to their AI emotion-classification algorithm
- Analyzed 4 key emotions with Python and R and proposed solutions to increase classification accuracy
- Collaborated with client company's President and VP as lead client relations manager for consultancy team

PROJECTS

Ocarina   Sep 2023 – Present
- Developed a CLI application for converting game controller inputs to MIDI events in Rust, allowing users to play synthesizers, drum machines, and virtual instruments with familiar, ergonomic input devices

Personal Website – jtrrll.com   Feb 2023 – Present
- Designed a personal website to showcase software projects, music, and art with TypeScript and SvelteKit
- Utilized mobile-first Tailwind CSS and async API requests to create a responsive user experience

mini.sh   Nov 2022 – Nov 2022
- Created a basic "POSIX-inspired" shell with redirection, pipes, sequencing, and grouping in C

F1-db   Mar 2022 – May 2022
- Constructed a Formula One database application with SQL and Python, accessed through the command-line
- Implemented CRUD operations to manipulate records and aggregation functions to summarize data

INTERESTS

Unix Philosophy, Songwriting, Water Polo, Formula One, Game Design, Machine Learning