Logan Stoltz

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Education

Eastern Washington University Fall 2019 – Fall 2024
Bachelor of Science in Computer Science / Minor in Cyber Security

- GPA: 3.2
- **Coursework:** Object-Oriented Programming, Data Structures, Secure Coding, Web Application Development, Programming Principles I/II, C++ Programming, C & Unix Programming, Operating Systems, Computer Networks, Software Development Principles, Data Mining, Automata & Compilers, Computer Graphics & Data Visualization, Relational Database Systems, Digital Circuits, Linear Algebra, Discrete Mathematics, Calculus I/II, Probability & Statistics, & Computing Ethics.

Projects

Family Habit & Activity Tracker (*HTML, CSS, JavaScript*) Fall 2025 - Present

- Developed a full-stack web application enabling new parents to track personal habits and baby care activities in one centralized platform, improving organization and wellness monitoring.
- Built the front-end using **Vue.js** and **Vite** for a responsive, mobile-friendly interface; implemented authentication, routing, and state management for seamless multi-profile use.
- Designed and integrated a **Ruby on Rails** backend with a **PostgreSQL** database to manage user data, habit logs, and baby activity records, featuring secure login and persistent storage.
- Tools Used: **Vue.js, Ruby on Rails, PostgreSQL, Vite, NPM, GitHub, Visual Studio Code**

Data Structure Visualizer (*HTML, CSS, JavaScript*) Spring 2024 - Winter 2024

- Designed and developed a web platform to help students explore data structures such as Stacks, Doubly Linked Lists, Binary Search Trees, and MaxHeaps through interactive visualizations that demonstrate changes during key operations. Contributed to both front-end and back-end development.
- Features user authentication with account creation, log-in, and personalized navigation on the home page, dashboard, and interactive data structure visualizers. The dashboard features a progress tracking checklist saved upon logout.
- Tools Used: **Firebase, Git, Visual Studio Code**

LL(1) Parser *(Java)* Fall 2024 - Fall 2024

- Developed a program that uses the LL(1) algorithm to process text input containing context-free grammars (CFGs) and evaluates strings to determine whether they belong to the languages defined by the corresponding CFGs.
- Implemented features for computing the FIRST and FOLLOWS for each non-terminal, constructing an LL(1) Parse Table to compute whether the grammar is in LL(1), and then applying language membership tests based on the LL(1) parsing algorithm.
- Tools Used: **Java, Github**

More Project on my Portfolio and Github

Personal Portfolio Website

Loganjstoltz.com

- Built with **Vue.js**, **HTML**, and **CSS**, featuring a responsive, mobile-friendly layout and clean UI. Deployed and hosted using **AWS**.

Skills

Languages: Java, CSS, HTML, SQL, JavaScript, LaTeX, Vue.js, NPM, and Ruby on Rails
Technologies: Visual Studio Code, PostgreSQL, Git/GitHub, Wireshark, Ubuntu/Kali Virtual Machines.