

Griffin DesRoches

📍 Cambridge, MA ✉ gmdesroches@umass.edu 🌐 griffindesroches.me in griffindesroches 🐙 griffinaxa

Summary

Driven first-year student with a strong foundation in mathematics and statistical modeling, pursuing a dual degree in Statistics and Computer Science. Enthusiastic about applying quantitative methods and computational problem-solving to real-world data challenges. Seeking a summer 2026 internship in a technological, data-focused role.

Education

University of Massachusetts Amherst

Sept 2025 – May 2029

B.S. in Statistics, B.A. in Computer Science

- **Planned Coursework by Summer 2026:** Data Structures, Object-Oriented Programming, Applied Statistics, Introductory Data Science & Machine Learning, Linear Algebra, Calculus, Probability, Discrete Mathematics

Cambridge Rindge & Latin School

Sept 2021 – May 2025

Experience

Software Engineer Intern

Boston, MA

Dana Farber Cancer Institute, Dr. Giovanni Parmigiani Lab

Feb 2025 – May 2025

- Developed a production-ready R Shiny SaaS application enabling real-time interaction with the DRCMD R package (Doubly Robust Causal Inference with Missing Data), streamlining usage by research analysts
- Engineered a fully reactive UI in R Shiny that enabled custom variable selection and reduced manual data processing time by 50%, improving analytical workflow efficiency and accessibility.
- Conducted statistical analysis of missing data patterns across five clinical variables, evaluating Random Forest and Gradient Boosting models for treatment-effect estimation under high missingness and noise, validating the doubly robust properties of the R package through simulation.

Software Engineer Intern

Cambridge, MA

Innovators For Purpose

July 2023 – Nov 2023

- Developed a scalable MVC backend in Node.js for a full-stack quiz-taking application, designing a database with 30+ models and 50+ relationships ready for use in classrooms in a study to collect AI sentiment among children
- Utilized GitHub in an agile, 5-person team to manage the code base, successfully merging numerous features while maintaining code stability across the frontend and backend groups.

Teaching Assistant

Cambridge, MA

Cambridge Rindge & Latin School

Sep 2024 – Jan 2025

- Assisting students in developing AP Physics knowledge by holding ~ 3 hours of office hours weekly; aiding lead teachers in grading 20 students daily work; incorporating new Fluid Mechanics unit into the curriculum for the first year. Hosting extensive review sessions to ensure student success on the AP exam

Information Technology intern

Somerville, MA

City of Somerville City Hall

Jun 2024 – Aug 2024

- Installed dozens of high-quality PC workstations with VPN access in the departments of HR, Finance, and Housing
- Safely disposed of Hundreds of Hard Drives and Ram Sticks on public sector computers in equipment overhaul
- Worked On call for technical/software/network support for Public Sector employees within the city

Projects

easytree.xyz - ASCII File Directory Generator

[Github repository](#) 

- Built a fullstack SaaS web application that generates ASCII file trees from public GitHub repositories, simplifying documentation, onboarding, and LLM-assisted code analysis.
- Engineered a responsive React 19 frontend with a Node.js/Express backend, optimizing performance with shallow cloning and automated cleanup. Integrated Axios for seamless API communication
- Deployed the app on Render for CI/CD integration, ensuring smooth updates and continuous availability.

Personal site - Griffindesroches.me

[Github repository](#) 

- Designed and developed a responsive personal website using HTML5 and CSS3, serving as a portfolio to showcase project work as well as a blog. Deployed the site on Vercel for simple deployment and hosting.

Skills

Languages: Java, R, Python

Machine Learning/DS: Pandas, Caret, NumPy, SuperLearner, Shiny, ggplot2, Streamlit

Technologies: Node.js, Express, Git, Github, VS Code, Cursor IntelliJ, R Studio, Unix Shell, Ubuntu, Mint, L^AT_EX

Productivity: Cursor, LLM Usage, Image/Video/Text/Audio generation, Prompt engineering, Context engineering