

Griffin DesRoches

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

B.S. in Mathematics (Statistics Concentration), Minor in Computer Science. GPA: NA

Exp. May 2029

Cambridge Rindge & Latin School

Cambridge, MA

SAT(M): 770. Courses: Vector Calculus, Java, Python, Web Design & Development, AP Physics C

Exp. May 2025

EXPERIENCE

Research Assistant

Feb 2025 – Jun 2025

Dana Farber Cancer Institute, Dr. Giovanni Parmigiani Lab

Boston, MA

- Developed a production-ready R Shiny web 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 the robustness of Random Forest and Gradient Boosting models in estimating treatment effects under high missingness and noise.

Software Engineering Intern

Jul 2023 – Nov 2023

Innovators for purpose

Cambridge, MA

- Contributed **1500** lines of Sqlize code to an established codebase via **Git** and **Github**
- Developed a complete full stack quiz application, utilizing principles of MVC software and database programming
- Became familiar with programming in a team environment and analyzing others contributions through **Github**

Information Technology intern

Jun 2024 – Sep 2024

City of Somerville City Hall

Somerville, MA

- **Installed** dozens of high-quality 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 support for Public Sector employees within the city

Teaching Assistant

Sep. 2024 – Present

Cambridge Public Schools

Cambridge, MA

- Student TA for AP Physics 1 course, **assisting** students in **developing** physics knowledge by holding ~ 3 hours of **office hours** weekly; aiding lead teachers in grading with respect to College board rubrics; **incorporating** new Fluid Mechanics unit into the curriculum for the first year.

INVOLVEMENT

Volunteer Head coach

Apr. 2021 — Present

Cambridge Youth Baseball

Cambridge, MA

- **Tutoring** a cohort of around 15 under 12-year-old kids in their baseball endeavors
- Serving as the head coach to multiple teams throughout North Cambridge youth baseball; **leading** their practices
- Assisted Major Cubs team in winning their first Mayor's Cup in 2024 by developing two new pitchers

SKILLS

Languages: Java, R, Python, JavaScript, HTML/CSS

Frameworks / Tools / OS: Node.js, Express, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Unix Shell, Vim/Neovim, Windows, Mac OS, Linux (Ubuntu, Mint)

Data Science / ML: Pandas, NumPy, SuperLearner, Shiny

Spoken Languages: English (Native), Spanish (Intermediate), Romanian (Beginner)

RELEVANT TECHNICAL COURSEWORK

- AP Computer Science A (5)
- AP Statistics (5)
- AP Computer Science: Principles
- Vector Calculus
- Calculus I

- AP Physics 1
- AP Physics 2
- AP Physics C: Mechanics (5)
- Web Design & Development
- AP Calculus BC (5)