Griffin Bates
Resume

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🖥 https://www.groovyboron.com
⌗ https://github.com/Chemist02
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WORK EXPERIENCE

FEB 2024 – PRESENT

MathWorks
Associate Software Engineer

Contribute to C/C++ backend and MATLAB/Javascript front end. I also assist customers with parallel computing, deployment, test and measurement, containerization, and API workflows.

MAY 2023 – AUG 2023

MathWorks
EDG Software Engineering Intern

Optimized and expanded hardware detection code used by several downstream teams. Improved front end infrastructure to present hardware information to users.

JAN 2022 – DECEMBER 2023

Rensselaer Polytechnic Institute
Undergraduate Teaching Assistant

Teaching assistant for computer organization and discrete math courses. Duties were to hold regular office hours and to grade assignments. Class topics include C, MIPS, logic circuits, and pipelining for the former, and logic, proof techniques, graph theory, probability, theory of computation, and complexity theory for the latter.

JUN 2022 – AUG 2022

University of Colorado Anschutz Medical Campus
Computational Research Intern

Examined a variety of approaches to study intracranial pressure (ICP) computationally. This primarily took the form of implementing dynamical system ICP models that my my lab-mates needed in their work.

MAY 2018 – AUG 2019

Iona College
Research Intern

Investigated factors that affect the permeability of water through lipid bilayers. Duties included preparing lipid samples, operating laboratory equipment (e.g. Raman Spectrometer), reporting to/working with more experienced researchers, and running computational molecular dynamics simulations.

EDUCATION

2020 – 2023   **Bachelor's of Science**
MAGNA CUM LAUDE
Computer Science and Mathematics
Rensselaer Polytecnic Institute

2016 – 2020   **High School Diploma**
GPA: 101.7/100
New Rochelle High School

TECHNICAL SKILLS

BEGINNER	x86, Microcontrollers, HTML, CSS, Javascript, Signal Processing, Godot
INTERMEDIATE	Graph Theory, C, MIPS, LaTeX Linux, C#, Git, Game Development Linear Algebra, Real Analysis, Discrete Math, Computability Theory
EXPERT	C++, Python, Calculus, Research, Data Structures

COMMUNICATION SKILLS

Collaboration

I'm at my most productive in an environment where people collaborate, bounce ideas off of one other, and enjoy discussion. I make an effort to listen more than I talk.

Presentation/Teaching

Those who can present concepts in a clear, engaging way have enabled the modern world. I have therefore worked hard to develop my ability to do so. To that end, I apply these skills as a teaching assistant, researcher, and in the workplace.

Enthusiasm

I fell in love with computer science and mathematics years ago and haven't looked back. I'm not the most talented programmer by any means, but my love of the field allows me to fully dedicate myself to projects.

AWARDS

2023   **Jack Hollingsworth Prize**
Awarded to one student each year for making a major contribution to the CS at program RPI. In this case, it was through my efforts as a teaching assistant.

2021   **Mini Jam 71: Puzzles, First Place Overall**
First place overall in a three day game jam with 97 entries. The theme was to make a puzzle game that "combined two genres."

2019   **GENIUS Olympiad, Bronze Medal**
Presented research on cell membrane fluidity. Participated with students from over 90 countries.

PROJECTS

See website and/or GitHub for a selection of projects (links at the top of the page).