

Grace Gillam

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Objective

Computer science student with skills in Java, C, Python, SChE safety certified, seeking a summer 2024 internship. Previously a chemical engineering student, until summer 2023.

Education

Virginia Commonwealth University, Richmond, VA
Bachelor of Science in Computer Science

Expected Graduation: May 2025
Major GPA: 3.636

Skills

Programming: Java, C, some Python and MATLAB, VBA for Excel, HTML, CSS, JavaScript

Technical: LaTeX, IntelliJ, lab equipment proficiency, Aspen Plus, Linux (Ubuntu)

Soft: Teamwork and effective project communication, time management and prioritization, fast learner, adaptable

Relevant Courses

Programming for Chemical Engineers 1 – *Introduction to Java, Python, VBA for Excel, MATLAB*
Computer Science 255 and 256 – *Introduction to data structures and object-oriented programming with Java*
Computing and Data Ethics | Calc 1, 2 | Mathematical Reasoning | Discrete Math | Calculus-Based Physics 1
SChE Safety Training Modules ELA950-ELA954

Courses in Progress

Computer Systems – *Ubuntu Linux and working with the Bash shell, learning C, building a shell from scratch*
Fundamentals of Software Engineering – *Software prototyping, teamwork, effective communication*
Theory of Computation – *Complexity classes, automata, Turing machines, formal languages*
Computer Organization – *Binary, logic design, data paths, memory hierarchy, instruction set architecture*
Algorithm Analysis – *Designing efficient algorithms, divide-and-conquer, dynamic programming, greedy algorithms, sorting, searching, height trees, B-trees, multiple linked lists, hashing*

Relevant Experience

Lab Research Assistant, Hampden Sydney College, Farmville, VA May 2022 – July 2022

- Synthesized and purified the transmembrane domain of the SARS-CoV-2 envelope protein and attached two different fluorescent markers to run a spectroscopy assay and determine the oligomerization state of the transmembrane domain, informing further research into the disruption of the membrane
- *Lab etiquette, research presentation, HPLC/LCMS, freeze dryer, paper-writing, project documentation*

Personal Projects

Personal Portfolio Website December 2023 – Present

- Designing and coding a customized website to promote and showcase my abilities and projects – learning HTML, CSS, and JavaScript from scratch to produce interactive text, cursor, and webpage effects, external webpage integration, and user-friendly formatting and page navigation

Platformer Video Game Mod (Rainworld) January 2024 – Present

- Teaching myself C#, Unity engine, PNG to TXT encoding, GUI design, game source code analysis and modification, mesh calculations, and more

Other Work Experience

Training Team Climbing Coach, Peak Experiences, Richmond, VA Oct. 2022 – March 2023

- Teaching children how to rock climb

Front Desk Staff and Coach, Triangle Rock Club, Richmond, VA Sept. 2023 – Present

- Teaching new children how to rock climb, teaching belay classes, and working with customers
- *Conflict resolution, group management, effective teaching, risk assessment, customer service*

Student Organizations, Activities

Secretary of the VCU Climbing Club, Richmond, VA

Jan. 2023 – Present

Member of AIChE at VCU

Jan. 2022 – May 2023