





# Colin Bakker

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## EDUCATION

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### Texas A&M University

May 2026

*Bachelor of Science in Computer Science*

*Current GPA: 4.0/4.0*

**Awards:** National Merit Scholarship, President's Endowed Scholarship, George E. Carr '56 Endowed Scholarship, Engineering Honors

**Certifications:** freeCodeCamp Responsive Web Design: <https://www.freecodecamp.org/cbakker207> - January 2024

## SKILLS

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**Languages:** C++, Python, Java, JavaScript, HTML, CSS,  $\text{\LaTeX}$

**Tools:** Git/GitHub, Linux, Visual Studio, VS Code, Vim, PowerBI

## EXPERIENCE

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### Textron Aviation | *Data Analysis Intern*

June 2024 – August 2024

- Collaborated with cross-functional teams to optimize the refresh speed of PowerBI Workspaces responsible for delivering reports to the Programs department and the Analytics, Pricing, and Data department by over 90%.
- Prepared and presented weekly report-outs to management to communicate my project's progress.
- Shadowed the E-Commerce department's software development team to gain an understanding of the Agile Scrum process and the software development life-cycle.

### Texas A&M University | *Peer Teacher*

January 2024 – Present

- Assisted hundreds of students enrolled in freshman and sophomore level Computer Science courses during lab and one-on-one office hours.
- Taught C++ and Python language use, error handling, program analysis and design, memory management, and object-oriented design.
- Assisted students in debugging programs, honing skills in identifying and resolving complex software issues using debugging software.

### Texas A&M Cybersecurity Club | *Member*

August 2023 – Present

- Learned cybersecurity techniques such as binary exploitation, web exploitation, reverse engineering, and cryptography.
- Earned 8th place out of 50 teams at TAMU Fall CTF 2023 and participated in NSA Codebreaker Challenge.

## PROJECTS

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### Office Space Worker Distribution | *JavaScript, HTML/CSS, VS Code*

October 2023

- Collaborated with a team to develop a full-stack web application to analyze worker preference data and design an ideal office layout, minimizing worker conflict and maximizing available floor space
- Provided program documentation for judgment as a part of a hackathon competition
- Planned, programmed, and optimized program under a 24-hour time constraint

### Graphical Projects | *Python, C++, Java, OpenGL, JavaFX, GitHub*

November 2021 - Present

- Created Wordle, Pong, first person 3d games and other graphical applications using C++, Python and Java programming languages as well as the JavaFX, OpenGL, raylib, and wxWidgets libraries.
- Made use of linear algebra concepts and matrix operations to perform transformations on three dimensional vectors to render scenes on screen.
- Utilized Git/GitHub for version control and documentation.

### Password Manager | *C++, Crypto++, GitHub, MinGW*

July 2023

- Programmed a C++ program that encrypts and stores passwords locally. Symmetrically encrypts passwords using a key derived from a master password the user memorizes
- Researched and utilized the Crypto++ library for SHA3 and PBKDF2 functions to hash passwords