

BOBBY WHITEHEAD

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SUMMARY OF QUALIFICATIONS

A student professor at Virginia Tech, double majoring in computer science and mathematics. Experienced in Java, JavaScript, C, and Python through internships and projects, with a focus on backend systems, data management, and mathematical computation. Seeking full-time roles that combine computational mathematics and software engineering.

EXPERIENCE

Virginia Tech Blacksburg, Virginia
Mathematics Student Professor August 2024 - Present

- Assisted in teaching Differentiable and Integral Calculus, Discrete Proofs, Multivariable Calculus, and Linear Algebra mathematics classes to Sophomores and Freshman at Virginia Tech.

Research Fellowship Blacksburg, Virginia
Researcher of Cryptography and Computer Science January 2024 - July 2024

- Studied the poset of binary CSS-T quantum codes and cyclic codes which deals with the reliance of quantum computing and its defense against the adverse impact of noise and decoherence.
- Utilized Python and Magma to simulate the various theorems and track their efficiency in guarding quantum computing from cyber attacks.
- Met weekly with 7 math majors, and 2 doctoral candidates, in order to publish an academic thesis discussing our studies.
- Worked with the Virginia Tech treasurer, translating mathematical knowledge into laamen terminology, to secure \$12,000 in funding.

AEi Systems Inglewood, California
Software Engineering Intern July 2022 - Novemeber 2023

- Worked on the development and implementation of a Python script designed to handle the analysis of large data sets and the creation of downloadable histogram and probability graphs.
- Studied excel automation through Python, including advanced data analysis.
- Used HTML and CSS to build and manage a web-app for easy access and use of the Python script.
- Specialized in cross-functional communication between the sales department, software development department, and the electrical engineering department.

EDUCATION

Virginia Tech 2021 - Present

Bachelors of Science in Computer Science, Mathematics (Double Major)

Expected Graduation, May 2025

3.91 GPA

Clubs and Organizations:

- Phi Delta Theta Fraternity
Served as the Treasurer in 2023, managing an operating budget of \$150,000.

SKILLS AND INTERESTS

Technical Skills Java, C, Python, MATLAB, SOLIDWORKS, Linux, LaTeX, Technical Writing, Google Workspace, Microsoft Office, Computer Building

Additional Interests Aviation, Cyber Security, Website Design, Graphic Design, Fitness, SCUBA Diving, Skiing.