# James E. Roberts, Jr.

career.jamesrobertsjr@gmail.com | linkedin.com/in/jamesrobertsjr | github.com/jamesrobertsjr

## EDUCATION

**Pennsylvania State University** State College, PA

*Bachelor of Science (B.S.), Computer Science, Software Engineering* *Aug 2022 – May 2026*
- Major GPA: 4.0/4.0
- Relevant Coursework: Programming Techniques, Intermediate Programming, Data Structures, and Algorithms
- Member: Institute of Electrical and Electronics Engineers (IEEE), Association for Computing Machinery (ACM)

**Liberty University Online Academy (Dual Enrollment)** New York City, NY

*High School Diploma* *2017 – 2021*
- GPA: 4.0/4.0
- Relevant Coursework: Coding Fundamentals in Python (partnership with Amazon), Computer Literacy
- Member: National Honor Society and Astoria Music Studio: Pianist and Violinist
- Honors: Principal's List, ACSI Math Olympics (top 1% of 400+ contenders), ACSI Spelling Bee (top 3% of 500+ contenders), ACSI Creative Writing Competition (top 5% of 1000+ contenders), Science Fair Top Project 2017

## EXPERIENCE

**Expedition EY - Technology Track** Feb 2023 – Present

*Ernst & Young* *Remote*
- Completed skills-based tasks leveraging machine learning and data analytics, gaining access to scholarship funds.
- Acquired information about various career paths in professional services, including technology consulting and cybersecurity advisory.
- Learned how artificial intelligence will shape the macroeconomic outlook through increased efficiency via various technologies, including computer vision and speech recognition.

**Photograph Developer** Sep 2016 – Jun 2020

*Yearbook Committee, Evangel High School* *New York City, NY*
- Captured and preserved imagery of school events, people, and activities.
- Edited and processed photos using Adobe Photoshop and Adobe Lightroom.
- Collaborated with other members of the yearbook committee to create a cohesive yearbook.

## PROJECTS

**Dotfiles Automation** | *Bash, Unix, Git* Sep 2022 – Present
- Developed a script to automate the installation of configuration dotfiles on a new system.
- Utilized Git to clone the dotfiles repository and used the Bash shell to install dotfiles and execute symlinks.

**Unit Converter** | *C++, Git* Jun 2022 – Present
- Developed a command-line tool using C++ for converting temperature and speed units, reducing time spent manually researching conversions by 80%.
- Acquired and embedded formulas for unit conversions using functions and the cmath mathematics library.
- Utilized Git for version control and GitHub for remote storage, allowing new conversions to be added over time without disrupting the functional executable.

**Character and Word Counter** | *C++, Git* Jun 2022 – Present
- Developed a C++ program to determine string lengths and word counts of user input through the terminal, increasing length testing efficiency by 80%.
- Used the standard library to allow C++ to understand and operate on user input effectively.
- Managed the project using Git for version control and GitHub for remote storage.

**Geometric Calculator** | *C++, Git* Jun 2022 – Present
- Created a C++ program to perform geometric calculations as a command-line interface, reducing the time needed to access and calculate via a GUI by 75%.
- Utilized do/while loops to allow the user to perform multiple calculations without having to restart the program.

## TECHNICAL SKILLS

**Programming Languages**: C/C++/C#, JavaScript, HTML/CSS, TypeScript, Python, Swift, LaTeX, Bash
**Developer Tools**: Git, GitHub, GitKraken, VS Code, Visual Studio, JetBrains Toolbox, Xcode, Unix, AlfredApp