

# Mitchell Comer

[mitchcomer@icloud.com](mailto:mitchcomer@icloud.com) / 781-783-3022 / [www.linkedin.com/mitchellcomer](https://www.linkedin.com/mitchellcomer) / [github.com/Comerm28](https://github.com/Comerm28)

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## Education

### Georgia Institute of Technology (Transfer)

Atlanta, GA

*Bachelor of Science in Computer Science, concentrated in Intelligence/Modeling and Simulation*

Expected May 2027

- Relevant Coursework: Linear Algebra, Objects and Design

### University of Massachusetts

Amherst, MA

*Bachelor of Science in Computer Science, GPA: 4.0*

May 2024

- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Calculus I/II/III, Reasoning Under Uncertainty

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## Skills

**Programming Languages:** Java, Python, C#, C, C++, SQL, HTML, CSS, Nix

**Frameworks and Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Joblib, Junit, Protobuf

**Tools and Platforms:** Git, Github, VSCode, Anaconda, Linux, CMake, Agile Methodologies, UML(Draw.io), Android Studio, doxygen

**Certifications:** IBM Cybersecurity Fundamentals, SQL Essential Training

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## Relevant Experience

### Hytech Racing - Software Division

Atlanta, GA

*Developer*

August 2024 – present

- Authored Torque Controller Muxer docs, diagrams, failure modes, and tests. Ensured full integration test coverage and error handling
- Enhanced a Python script generating .proto files for enum compatibility, successfully integrating with the CAN communications driver in Drivebrain for seamless message parsing and encoding. Documented process and created flow charts for CAN driver and its integration
- Assisted in integrating offloading service of MCAP files onto MangoDB database for enhanced analysis and storage
- Contributed to information base about Nix, CMake, and C++ best practices to support future members

### Work Based Learning Alliance

Hingham, MA

*Cybersecurity Intern*

August 2023 - August 2023

- Investigated and evaluated the severity of weaknesses in a website based on a security scan to research potential solutions
- Presented recommended solutions to my supervisor and enabled the resolution of the 20+ identified threats

### RGB Computer Solutions

Hingham, MA

*Intern/Technician*

October 2022-March 2023

- Interpreted Windows and Macintosh operating system issues with 2+ computer systems a day in order to repair and optimize them
- Guided customers step-by-step through their technological issues to educate them, reducing future repeat service requests

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## Projects

### Elemental Survivor

May 2024 - Present

- Designing and Developing a 3D story-driven puzzle game, by conceptualizing advanced game mechanics to engage players
- Optimizing game performance through ongoing code refinement and best practices in memory management to ensure a seamless player experience
- Engineered a robust event-based system architecture in Unity, with currently over 60 C# scripts developed that implement key game functionalities, with a strong focus on object-oriented programming principles

### Personal Portfolio Website - [Comerm28.github.io](https://Comerm28.github.io)

October 2023 – November 2023

- Developed a personal portfolio website from scratch, showcasing technical qualifications such as version control and expertise in multiple programming languages
- Integrated 2 data analysis projects into a dedicated section called "The Lab," showcasing skills in data manipulation, visualization, and statistical analysis

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## Extracurricular and Leadership Experience

### American Legion Massachusetts Boys State

Easton, MA

*Election Official* – Learned leadership, economics, and politics in seminars, Directed elections and kept integrity in mock government processes

### Beth Israel Medical Center in Boston and Suburban Home Health

Hingham, MA

*Organizer/Volunteer* - Planned Hingham community efforts and donations for war in Ukraine, Volunteered receiving, organizing, and cataloging items totaling \$1,000+ received, recognized by Polish White Eagle(newspaper in Poland)