

Mitchell Comer

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Education

Georgia Institute of Technology (Transfer)

Atlanta, GA

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

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, Physics I/II

Skills

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

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

Tools and Platforms: Git(Github), VSCode, Unity, Anaconda, Linux(WSL), Agile, Android Studio, UML, SonarQube, Google Cloud Platform

Certifications: IBM Cybersecurity Fundamentals, SQL Essential Training

Relevant Experience

Hytech Racing - Software Division

Atlanta, GA

Software Engineer

August 2024 – Present

- Authoring Torque Controller Multiplexer(firmware) docs, diagrams, failure modes, and tests, improving code accessibility and integration
- Developing and integrating new Drivebrain controller system with the rest of the car and ensuring code works through unit and on-car tests
- Developed Torque Controller Manager in C++ for new electric car software(Drivebrain) to optimize torque distribution and vehicle performance
- Enhancing a Python script generating protobuf message template files for enum message compatibility, successfully integrating this with a CAN communications driver in the Drivebrain software for seamless data parsing and encoding

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
- Documented issues and guided customers step-by-step through their technological issues to educate them, reducing future repeat service requests

Projects

WanderSync

August 2024 – December 2024

- Collaborating in Android Studio using Agile methodologies(Scrum) to develop "WanderSync" – a travel itinerary management app
- Designing UI and Java logic in MVVM architecture, developing ViewModels for app screens, Firebase authentication, and navigation screens
- Conducting object-oriented analysis (OOA) for the initial design phase, creating a comprehensive Domain Model and Use Case Diagram
- Integrating SonarQube, Google cloud, and GitHub CI workflows, achieving an A rating for code quality and supporting optimal code integration

Elemental Survivor(Personal)

May 2024 - Present

- Designing and Developing the backend to a 3D story-driven puzzle game, by conceptualizing and advanced game mechanics to engage players
- Optimizing game performance through ongoing code refactoring 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 and reducing coupling between scripts

Personal Portfolio Website - 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 using tools like Pandas and Matplotlib

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)