

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

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

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

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, created spreadsheet to classify these weaknesses
- 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
- 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 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

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 cataloguing items totaling \$1,000+ received, recognized by Polish White Eagle(newspaper in Poland)