

# CONTACT

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## **EDUCATION**

## 2022-2025 **SIENA COLLEGE**

- B.S. in Computer Science: Software Development
- GPA: 3.60 ∴ Cum Laude

## 2020-2022 **HUDSON VALLEY** COMMUNITY COLLEGE

- A.S. in Computer Science
- GPA: 3.70

### **SOFT SKILLS**

- Technical Leadership
- Team Coordination
- Communication
- Technical Compromise
- Charismatic Team Participation
- Critical Thinking
- Problem Solving
- Task Comprehension
- Project Planning
- Backlog Management
- Documentation & Clarity in Task Design
- Agile Scrum Workflow (Product Ownership)

# **COLE MCGREGOR**

## SOFTWARE ENGINEER

### **PROFILE**

Experienced in system and game design, backend architecture, Al integration, and mobile development. Led Agile teams as a Product Owner and contributed handson to projects using React Native, FastAPI, Docker, and OpenAI APIs. I am passionate about building efficient, user-focused systems that improve over outdated and less accessible designs. I especially enjoy optimizing algorithmic systems and solving logic-heavy challenges.

### TECHNICAL SKILLS

- Programming: Java, C++, Project Design & JavaScript, Python, C, C#
- Games: Unreal, Unity,
- **Design Patterns**
- Software Architecture
- Development

SQL & NoSQL

- REST API Development
- Game Physics, Blueprint In-depth documentation
- LLM Prompt Generation Al Tools: ChatGPT (3-4o), Perplexity, Ollama, Cursor, • GitHub, Github Projects **APIs**
- Authentication & RBAC
- React Native & Expo
- Firebase Integration
- Docker & Docker Compose
- Product Mockup

## **EXPERIENCE**

#### Siena College Software Engineering

2024-2025

Software Engineer and Agile Product Owner

- · Managed the product backlog for a distributed, AI-based healthcare scheduling system
- Led Agile coordination with developers and the Scrum Master
- Integrated external APIs including Twilio, OpenAI, and a Medent EHR emulator
- Designed and developed core architecture and backend services for Logging and IAM using FastAPI and Docker
- Maintained complete system documentation, diagrams, and unit/system tests, ensuring minimal overhead time for team turnover
- · Collaborated with clients to refine features and align with evolving needs

#### Siena College Parallel Processing

2024

Logic and Physics Development Lead

- Built a 3D parallel N-body simulator in C++ to model gravitational systems
- Used OpenMP and multithreading for scalable force calculations
- Ran performance benchmarks on TACC supercomputing resources
- Implemented real-time 3D visualization with data slicing for efficiency
- Applied stable numerical integration for high-gravity accuracy

#### **United States Air Force**

2016-2019

Armament Systems Specialist, Squadron Leader

- · Supervised and mentored over 400 trainees during technical training, promoting accountability and team performance
- Managed inspections, inventory, and tool checkout systems in a highsecurity environment
- Provided logistical and facility support, ensuring operational readiness across multiple units