

# Michael Manley

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GitHub: <https://github.com/execchef23>

Portfolio: <https://portfolio-yd8b-execchef23s-projects.vercel.app/>

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Dear Epic Games Hiring Team,

I am excited to apply for the Engine Programmer Intern position on the Fortnite performance and optimization team. Epic's focus on building powerful tools, pushing the boundaries of real-time rendering, and fostering a collaborative engineering culture deeply aligns with the work I've been doing as a developer and with the direction I want my career to grow.

I have strong hands-on experience in C++, Python, and performance-minded development, and I've spent the past year building systems that mirror many of the challenges of engine-level work. Most notably, I engineered a real-time MLB prediction and optimization engine that ingests data, analyzes system performance, and runs automated pipelines—experience that reflects Epic's emphasis on tooling, metrics, and highly optimized systems. This project required debugging complex data flows, managing memory-heavy datasets, and building tools that others could use and extend.

I have a deep interest in game engines and have been actively studying how Unreal Engine handles memory management, performance profiling, asset streaming, and hardware optimization paths. I've also been strengthening my C++ fundamentals, focusing on pointers, references, memory layout, data structures, and multithreaded processing—foundational principles that make engine-level work possible.



I would be thrilled at the opportunity to learn directly from Epic engineers, contribute to Fortnite's performance tooling, and help build the systems that empower designers, artists, and gameplay programmers worldwide.

Thank you for your time and consideration. I would love the opportunity to contribute to Epic's mission and grow as a systems-focused engineer.

Sincerely,  
Michael Manley

Fun fact: I share my name with Michael Manley, the fourth Prime Minister of Jamaica, who served from 1972–1980 and again from 1989–1992. He is still remembered as one of Jamaica's most influential leaders.

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## Summary

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Aspiring Engine Programmer with strong C++, Python, and systems-level development experience. Skilled in building performance-minded, data-driven applications, automation pipelines, and tooling. Certified in AWS Cloud, MuleSoft Development, and IBM AI. Passionate about game engine internals, performance optimization, memory systems, and real-time interactive experiences.

## Technical Skills

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**Languages:** C++, Python, JavaScript (React, Node.js), Java, SQL/NoSQL

**Tools:** Git/GitHub, Visual Studio, VS Code, Docker, AWS, Unreal Engine (learning)

**Concepts:** Debugging, data structures, system optimization, API integration, data pipelines, CI/CD

**AI & Cloud:** IBM AI Developer, AWS Cloud Certified, MuleSoft Developer

## Certification / Education

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North Carolina State University – Certification in Software Development (Bootcamp) - May 2022–January 2023

MuleSoft Developer Level 1 – April 2023

IBM AI Developer – June 2025

Johnson and Wales University - Associates of Science in Culinary Arts – November 2004 Magna Cum Laude

## Developer Experience

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### Independent Web Developer | 2025–Current

#### Real Estate Website

Developed and manage a user-friendly real estate website that showcases property listings and agent services with a modern, mobile-responsive design.

- Built a responsive real estate site using HTML, JavaScript, and SCSS, improving mobile load speed by 15% compared to client's previous site.
- Designed intuitive UI for listings, contact forms, and bios, increasing visitor engagement by 10% based on bounce rate and time on page.

#### AI-Powered Stock Screening & Trading Intelligence System

- Developed an AI-powered stock screening system using Python with custom scoring algorithms that evaluate stocks across multiple technical indicators (RSI, MACD, momentum, volume) to identify high-growth trading opportunities.
- Implemented a beginner-friendly trading feature with configurable price filters (\$2–\$50) and volume thresholds (500K minimum) to help novice traders identify affordable, liquid stocks with growth potential.
- Built a comprehensive technical analysis engine that categorizes stocks into five growth tiers (explosive to low growth) using multi-factor scoring combining technical analysis, momentum indicators, and ML predictions.

## Additional Experience

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### **Constellation Culinary Group | 2023–Current**

#### *Executive Chef*

- Cultivates an industry-leading business dining experience which focuses on customers first, while leading a culinary staff to produce boutique level food.
- Develops and implements targeted marketing strategies for the catering department, hosting monthly expos for administrators and executives to drive year-over-year growth in catering sales by 10%.
- Enhances POS system functionality and usability, streamlining cashier operations to reduce wait times and improve customer satisfaction.

### **Sunrise Senior Living | 2022–2023**

#### *Executive Director*

- Lead the sales process utilizing PowerBI tools to monitor pipeline and tracking, made 25 cold calls weekly to prospecting new residents turning 10% into tours.
- Made 5 follow up calls weekly to prospecting residents who recently toured our community to help close the transaction which lead to our community staying above 98% occupied during my tenure.
- Implemented a social media campaign to bolster potential new resident move-ins; achieved 20% increase in activity across social media platforms which lead to 1 extra move-in each month during the campaign.

### **Elmcroft Senior Living | 2019–2022**

#### *Dining Services Director/Assistant Executive Director*

- Created inviting dining experiences by providing well-balanced, high-quality meals while being a leader who strives to pass on years of culinary knowledge.
- Redesigned and optimized the internal menu management system, enhancing operational efficiency and enabling dining services directors to reallocate time to higher-impact initiatives.
- Consulted with residents monthly for feedback regarding meals and service, then implemented feedback in new monthly menus which increased resident satisfaction by 5%.

### **Brookdale Senior Living | 2017–2019**

#### *Dining Services Director*

- Created inviting resident experiences by providing well balanced delicious meals while being a leader who strives to pass on years of culinary knowledge.
- Designed signature offerings for new potential residents for a corporate sales campaign, which increased our new resident move ins by 2%.
- Consulted with residents monthly for feedback, then implemented given feedback in new monthly menus which increased resident satisfaction by 5%.

### **Watercolour Grill House at Marriott Sandkey | 2015–2017**

#### *Restaurant Manager*

- Created an exceptional dining experience, by providing world class customer service, while leading the front of the house team showcasing world class service.
- Retrained servers in innovative guest service techniques, resulting in a 10% increase in guest satisfaction survey scores.
- Streamlined internal POS systems, improving efficiency and enabling servers to dedicate more time to customer service.