Lemuel Nogueira
Software Engineer & Game Developer

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Education

Florida Atlantic University   May 2023 - May 2025

Bachelor of Science Computer Science

Minor: Artificial Intelligence, Cybersecurity

Relevant Coursework: Foundations of Cybersecurity, Full-Stack Web Development, Introduction to Artificial Intelligence, Introduction to Deep Learning, Python Programming

GPA: 3.91

Palm Beach State College   May 2022 - May 2023

Associate of Art Computer Science and Information Technology

Projects

2D Monster-Taming RPG   Aug 2024 - Present

- A 2D monster-taming RPG prototype in Unity featuring turn-based combat, character selection, party management, inventory systems, and structured barracks organization.
- The game also incorporates world exploration, interactions with NPCs and merchants, and integrates various quest elements.

Minesweeper   Jan 2024 - Present

- An implementation of the classic Minesweeper game. The traditional gameplay is integrated with an AI algorithm that analyzes the board and makes safe moves or random guesses when necessary.
- Additionally, the game includes customizable difficulty settings, a graphical interface using Pygame, and various interactive elements like a timer and a mine counter.

Wordle   Jan 2024 - Present

- A Python-based adaptation of the Wordle game, available in both command-line and graphical formats using Pygame.
- Players attempt to guess words of selectable lengths within limited tries, receiving immediate, color-coded feedback after each guess.

Tic-Tac-Toe   Oct 2023 - Present

- A web-based Tic-Tac-Toe game, built with HTML, CSS, and JavaScript, and enhanced by jQuery and Bootstrap, supporting both single-player and local multiplayer.
- During solo play, the AI opponent employs alpha-beta pruning to identify the most optimal move.

Work Experience

Ecommerce Store Manager
retro_reservoir | *Remote*

Jul 2020 - Present

- Manage and operate a successful online storefront with an annual sales volume of over $60,000 and 1,500 transactions.
- Apply analytics to optimize pricing strategies, inventory turnover, and product visibility.
- Maintain exceptional customer satisfaction ratings (99-100%) through strategic customer engagement and service excellence.

Machine Learning Data Annotator
Scale AI | *Remote*

Mar 2024 - Feb 2025

- Annotated and validated datasets used for training computer vision and NLP models.
- Conducted data quality audits to support AI model accuracy and reliability.
- Collaborated with global AI research teams to refine annotation methodologies.

Investment Analyst
Lemuel Nogueira | *Remote*

Jan 2021 - Jan 2022

- Developed quantitative investment strategies, managing over $300,000 in diverse assets with returns exceeding 1,100%.
- Applied statistical analysis and algorithmic methods for risk management and asset allocation.
- Produced detailed financial reports and performance analytics to guide investment decisions.

Core Skills

Business, Management, and Soft Skills: Adaptability, Analytics, Communication, Financial Analysis, Management, Market Research, Problem Solving, Resilience, Teamwork, Troubleshooting

Core Technical and Quantitative Skills: AI/ML, Computer Networking, Cybersecurity, Data Structures & Algorithms, Mathematics, Operations Research, Physics, Quality Assurance, SDLC

Data and Analytics: Data Analysis, Data Science, Jupyter, MySQL, NoSQL, NumPy, Pandas, Postgres, SQL

Game Development and Design: Game Programming Patterns, LÖVE, Pygame, Unity, Unreal Engine

Programming and Scripting Languages: C/C++, C#, JavaScript, Lua, PowerShell, Python, TypeScript, VHDL

Software Tools and Environments: Adobe Photoshop, CI/CD, Docker, Excel/Numbers/Sheets, Git, Linux/Unix, PowerPoint/Keynote/Slides, Visual Studio, Word/Pages/Docs

Web Development and Design: Bootstrap, HTML/CSS, jQuery, JSON, React, REST API, SEO, Tailwind, UI/UX Design

Certificates

Intellectual Property Certificate
National Academy of Inventors

Responsible Conduct of Research
CITI Program