AIDAN IBRAHIM

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EDUCATION

Bachelor of Computer Science, University of Maryland, Baltimore County, GPA: 3.13 Expected May 2026

Relevant Coursework: Data Structures, Artificial Intelligence, Discrete Math, Statistics, Linear Algebra

SKILLS

- **Languages:** C++, Python, LiSP, x86 Assembly, MATLAB
- **Frameworks/Libraries:** Pandas, PyGAD, NumPy
- **Software:** VScode, PuTTY, Git, MSYS2, MS Office
- **Other:** Agile/Scrum, Data Visualization, Office Technology, Sales, Business Analytics

EXPERIENCE

Sales Associate, ZAAF
Jan 2024 - Present

- Designed and implemented a company **timesheet and payroll system** that was successfully adopted by **100%** of location staff
- Created detailed **sales reports** analyzing business performance and identifying trends
- Operated efficiently in a **high-security environment**, demonstrating thorough knowledge of regulations
- Maintained **top 3 ranking** in sales performance as well as holding the record for **highest hourly sales** over a pay period

Sales Associate, Office Depot
May 2022 – Jan 2024

- Maintained knowledge current technological advancements and solutions to provide tailored **hardware and software** recommendations to clients
- Procured and processed digital orders for shipping, ensuring timely and accurate fulfillment
- Aided in achieving a **$2,000** charitable donation goal for school supplies, benefiting a local **Title-1 school**

PROJECTS

Dominoes Game and AI Agent (Python) (GitHub)

- Programmed a fully functional dominoes game with multiple **custom AI agents**
- Developed data export to Excel functionality to assess agent performance and compare results from **millions of simulated games**
- Engineered a genetic algorithm based agent training suite leading to agent win rate improvements of **6% overall**
- Remodeled graphical and logical operations, enhancing simulation speed to **3,300 games per second** for certain agents
- Achieved a **57% win rate** for the top-performing agent against a random opponent

Wireless Power Tree Database (C++) (GitHub)

- Implemented **Binary Search, AVL**, and **Splay Trees** from scratch with significant optimizations, leading to better asymptotic performance
- Enabled seamless automatic **database restructuring** without allocating new memory
- Developed a comprehensive suite of **23 unit tests** to validate edge cases and assess performance