

Aidan Mahoney

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EDUCATION

University of Wisconsin-Madison

Expected Graduation: May 2027

Bachelor of Science in Computer Science

Madison, WI

- **Relevant Coursework:** Programming II (Java), Programming III (Java), Linear Algebra, Discrete Math
- **Organizations:** Wisconsin Neuromorphic Computing, Wisconsin Robotics, Undergraduate Projects Lab, Center for Educational Opportunity, Gener8tor CS NEST

EXPERIENCE

DeveloperDB

Jul 2024 – Sep 2024

Data Engineer Intern

Sunnyvale, CA

- Enhanced matchmaking by processing **1M+** profiles, extracting critical data for improved decision-making
- Improved data consistency by **25%** by resolving errors in merged profiles through custom validation scripts
- Accelerated data processing by **83%**, reducing time from **3 hrs** to **30 min**, by developing efficient Python scripts with minimized external library dependencies

Starbullet Studios

Mar 2021 – Jul 2024

Maintainer

Marlboro, NJ

- Led a 5-person team in developing an MMORPG, achieving **7.5K+** plays and **70+** stars during its **alpha** release
- Decreased ping by **80%** through optimized client-server communication protocols, improving gameplay
- Contributed **50K+** lines of code to an established codebase, integrating a Lua-based database for player stats, which enabled advanced game analytics

PROJECTS

Borzo | Python, React.js, Tailwind CSS, AWS, SOLIDWORKS

Nov 2024 – Current

- Co-developed an Airfoil design tool currently undergoing review by engineers from several Aerospace companies
- Reduced design time by **500%** with a Python feature for direct CAD file downloads, enabling faster integration
- Increased engineering club engagement by **120%** by hosting a tool locally with SSL certification and port forwarding, using an AWS EC2 instance as a proxy for secure access

Market Prediction Dashboard | Python, Scikit-learn, Streamlit, NumPy, Pandas

Sep 2024 – Nov 2024

- Built an interactive stock market prediction tool using Python, with data sourced from Yahoo Finance
- Achieved strong prediction accuracy, with a Mean Squared Error (MSE) of **38** compared to values in the hundreds
- Enhanced user engagement by **15%** by creating an interactive dashboard, allowing users to input and visualize stock predictions

Pokémon Remake | Java, LibGDX

Jun 2024 – Jul 2024

- Developed a 2D game using Java and LibGDX game development framework to create a remake based off games from the *Pokémon* franchise with a unique twist
- Increased engagement by **35%** by designing a dynamic, interactive tile-based map using 2D arrays
- Boosted frame rate by **25%** through efficient resource management and rendering techniques

ACTIVITIES

Wisconsin Neuromorphic Computing

Sep 2024 – Current

Chief Treasury Officer

Madison, WI

- Established a bank account with UW Credit Union to support the organization's financial needs
- Secured **\$350** in startup funding to cover early operational needs before the account's establishment

NASA L'SPACE Mission Concept Academy

Jan 2025 – Current

Team Member

Tempe, AZ

- Utilized Siemens NX for CAD design and JMARS for data analysis, contributing to robust mission concepts

SKILLS

Languages: Java, Python, Lua, JavaScript, HTML/CSS, SQL, Node.js, React.js, C++, C

Software: IntelliJ, PyCharm, Eclipse, VS Code, AWS, Langchain, Git, Bash, Docker