

Jonathan Alves

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EDUCATION

Montclair State University

Bachelor of Science in Computer Science

Montclair, NJ

Graduated

PROJECTS

TriTracker | *Python, Flask, JavaScript, SQLite, SQLAlchemy, CSS, Tailwind CSS, HTML, Jinja2*

- Developed a web-based statistical tracker for triathlon athletes using **Python**, **Flask** and **JavaScript**
- Integrated RESTful APIs to securely retrieve and update athlete data from a **SQLite** database
- Implemented a responsive dashboard to display user statistics using **HTML** and **Tailwind CSS**
- Optimized database query performance by **25%** through targeted database indexing

Discord Bot | *Python*

- Deployed a **Python-based** Discord bot to boost community engagement to over 1000 users
- Leveraged asynchronous programming to eliminate blocking delays, improving performance by over **2x**
- Implemented over 10 custom commands to handle API integrations, user engagement, and quality of life features
- Developed features such as image searching, an OpenAI-powered chatbot, and detailed weather reports

TodoCLI | *Python, pytest, JSON*

- Built a todo list application using **Python** that interfaces with the command-line
- Implemented persistent task storage using **JSON** to maintain data between sessions
- Achieved **90%** test coverage by writing unit tests using **pytest**, ensuring code reliability and supporting future feature development

TECHNICAL SKILLS

Languages: Python, JavaScript, C, HTML, CSS, SQL

Frameworks: Flask, Tailwind CSS

Databases: MySQL, SQLite

Developer Tools: Git, GitHub, WSL, pytest, Node.js, pip, npm, venv, Neovim, tmux

Operating Systems: Windows, Linux