

Nathaniel Martin

Troy, New York | nathanielwm@gmail.com | (518) 657-6590 | <https://nathanielmartin.com> | <https://github.com/nathanielwm>

Software Engineer with extensive Python experience and skills in C++ and C#, focused on backend systems and developer tooling. Passionate about building custom tools that improve workflows for developers and designers, with hands-on experience in command line interface development and API-driven automation.

EDUCATION

State University of New York at Albany

B.S of Computer Science | Minor in Informatics

Albany, New York

Expected Graduation, Dec 2026

- **Related Coursework:** Data Structures and Algorithms, Software Engineering, System Fundamentals.

State University of New York at Cobleskill

A.A.S of Graphic Design

Cobleskill, New York

- **Relevant Background:** Visual design principles, UI/UX fundamentals, cross-discipline collaboration.

SKILLS

Languages: Python, C#, C++ (learning), SQL

Game Engines: Unity, Unreal

Frameworks & APIs: Node.js, Electron.js, Django, REST

Databases: MongoDB, MSSQL

DevOps & Tools: Git, Linux, Docker, AWS

PROJECTS

Pathfinding Algorithm Visualizer

Jan 2025

Demo: <https://nathanielwm.github.io/PathingVisualizer>

Code: <https://github.com/nathanielwm/PathingVisualizer>

- Hackathon entry and 4th place winner. A browser-based visualizer for pathfinding algorithms, animated on a grid.

[WIP] Onslaught - Incremental Game

Current

Code: <https://github.com/nathanielwm/onslaught-game>

- Incremental auto-battling game initially written in Pygame being ported to Unity.
- Features an Electron app for enemy data manipulation and multiple custom UI widgets.

Tran Language Interpreter

Dec 2024

Code: <https://github.com/nathanielwm/SyllaScribe>

- A complete lexer, parser and interpreter for the Tran language written in Java.
- Tokenizes and manages tokens to create an AST using predefined nodes to be read by the interpreter.

SyllaScribe - AI Syllabus Parsing

Dec 2025

Code: <https://github.com/nathanielwm/SyllaScribe>

- Application that uses AI endpoints to automatically parse a syllabus and create a breakdown of assignments and grades.
- Acted in Dev Ops role, creating markdown guides, Github issues and projects for my team and reviewing 26 pull requests, frequently resolving merge conflicts.

EXPERIENCE

NYS Office of ITS

Albany, New York

Enterprise Monitoring | Student Assistant

July 2025 - Present

- Engineered an all-in-one CLI tool housing API-driven scripts for automated data extraction and reporting across two Dynatrace environments of 400+ applications and 1,000+ host machines.
- Installed and configured Dynatrace OneAgent and extensions on servers using Ansible and SSH/RDP, expanding observability coverage across production and non-production environments.
- Developed dashboards delivering key metrics across 30+ management zones, 400+ applications, and 200+ synthetic monitors spanning Kubernetes, AWS, and bare-metal infrastructure.

Blue Ridge Picking

Troy, New York

Owner | Clothing Resale

Sep 2021 - Present

- Managed an active inventory of 500+ listings across eBay, maintaining a 100% customer satisfaction rating and consistent daily listing output through strategic use of draft banks.
- Conducted market research using eBay analytics tools to identify product trends and price competitively, informing purchasing decisions and maximizing margins.