

ROHAN PLANTE

Computer Science Student at Marist University

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EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

2024 - Present

Marist University

Poughkeepsie, NY

- GPA: 3.64 / 4.0 • Dean's List (all semesters)
- Secretary (Spring 2026), Vice President (Fall 2026), Marist Computer Society
- Coursework: Software Systems Analysis, Software Development (I/II), System Design, Internetworking, Computer Organization & Architecture, Calculus II, Discrete Math, Database Management, Data Communications

SKILLS

Python, Java, SQL, TypeScript, HTML/CSS/JavaScript, Flask, Typst, OpenCV, Pandas, Git, Tableau, PowerBI, VSCode, RPi, LiDAR, VMWare/VirtualBox, Wireshark, Autopsy, Packet Tracer, PostgreSQL/PostGIS, Microsoft/Libre Office, Windows, Linux, Troubleshooting, Project

Management, Leadership

In progress: C, R, Rust, Golang

RELEVANT EXPERIENCE

DATA ANALYST ASSISTANT

Sep 2025 - Present

Office of Community and Belonging, Marist University

Poughkeepsie, NY

- Collect, organize, and analyze quantitative and qualitative campus data to identify trends and surface insights
- Prepare reports and visualizations to help guide university leadership
- Design, update, and maintain internal databases and dashboards

WEB DEVELOPER (INTERNSHIP)

Jun 2023 - Aug 2023

Essex North Shore Agricultural & Technical School

Danvers, MA

- Built prototype web pages integrating Google Sheets API with the school website to create responsive curriculum maps
- Automated Google Forms to Google Docs workflows, improving faculty efficiency
- Presented prototypes to school committee, administrators, and faculty

FUTURE LEADER / SUPERVISOR

Jun 2020 - Aug 2025

Essex Heritage

Saugus & Salem, MA

- Promoted to Supervisor (2025); lead peer workers in historic preservation and site management alongside Park Rangers
- Assisted museum curator with archival care and collections management, and worked on carpentry, blacksmithing, fence building, and landscaping projects

PROJECTS

MARISTMAPS: CAMPUS NAVIGATION PLATFORM (HACKATHON, BEST OVERALL PROJECT)

Apr 2026

Flask, MapLibre GL JS, PostGIS, NetworkX, LangChain

Poughkeepsie, NY

- Won Best Overall Project at Marist's Spring 2026 hackathon for a Google Maps-style campus navigation tool supporting both indoor and outdoor routing with a voice-enabled AI navigation agent
- Designed an indoor routing algorithm that flattens multi-floor paths through hallway graphs, then selects shared stairs and elevators to stitch natural cross-floor and cross-building routes, and implemented an elevator-centric mode
- Built mobile GPS surveying and desktop editing tools to map building entrances, stairs, elevators, rooms, and hallways across campus

6502 EMULATOR

Mar 2026 - May 2026

TypeScript, Node.js

Marist University

- Built a scalar-pipelined 6502 CPU with fetch, decode, execute, writeback, and interrupt-check stages advancing one slot per clock cycle
- Implemented hazard handling including fetch stalls on register dependencies, multi-cycle execute stalls, and pipeline flushes on branches and breaks
- Measured pipeline performance with IPC, stall, and flush metrics, and validated it with custom-written machine code programs

KITCHEN MANAGEMENT SUITE: SOFTWARE DEVELOPMENT II PROJECT

Sep 2025 - Dec 2025

Flask, PostgreSQL, custom JavaScript framework

Marist University

- Developed a full-stack kitchen management application with a relational database supporting multi-household recipe and pantry management
- Implemented recipe creation and recommendation, role-based access control, and household membership systems
- Created a script to fully populate the database with realistic users, groups, items, and recipes for testing and development

RAVEN-V: AUTONOMOUS SELF-DRIVING CAR

2023 - 2024

- Designed and built a functional prototype integrating LiDAR, computer vision, and machine learning for real-time navigation and object detection

AWARDS & ACHIEVEMENTS

Eagle Scout (Class of 2023) • Bernard Harris STEM Supernova Award (2021) • Order of the Arrow Inductee (2021) • Earned three Silver Palms

EAGLE SCOUT PROJECT - KING PINES TRAIL (MIDDLETON, MA)

2021 - 2023

- Directed creation of a hiking trail and 40-ft elevated boardwalk on conservation land
- Coordinated 400+ volunteer hours, managing logistics, funding, and approvals
- Trail now featured on AllTrails with a 4.1-star community rating

Technical & Academic

- 2024 Massachusetts Association of Vocational Administrators Outstanding Vocational Technical Student for Essex Tech
- National Cyber League (Fall 2022): Placed 369 of 3,926 teams; 1,137 of 6,679 individuals
- UMass Lowell GenCyber Program (2022): 1st place out of 40 participants in cybersecurity CTF