

Maret Rudin-Aulenbach

mrudinaulenbach@gmail.com | www.linkedin.com/in/maret-ra | github.com/MaretRudAul | NYC, NY 10075

SUMMARY

Vanderbilt University Master's student and Stuyvesant High School graduate with a passion for computer science, math, and strategy. Systems development intern at Sapeon and Technical Co-Founder of Career Clarifier LLC. Self-motivated, collaborative team player, and quick learner with meticulous attention to detail ensures that projects are of the highest quality and accuracy.

TECHNICAL SKILLS & ABILITIES

C++, C	Deep Learning	PyTorch, scikit-learn	Python	Typescript
Angular	Flask, Django	MATLAB, Simulink	Julia	Device Drivers
SQL	Git	Tailwind	NGINX	Docker, Virtual Machines
Java	Selenium	SDK development	Redis	Autonomous Vehicles

EDUCATION

Vanderbilt University, Nashville, TN (Jan 2025 - May 2026)

Master of Science in Computer Science

- 4.0 GPA. Coursework: Autonomous Vehicles, Algorithms, Foundation of Machine Learning, Fund. of Comp Sec Research.
- Selected by Dr. Yuankai Huo to begin deep learning research expanding on CircleSnake for medical imaging in Fall 2025.

Vanderbilt University, Nashville, TN (Aug 2023 - May 2026)

Bachelor of Science in Computer Science & Mathematics

- 3.73 GPA. Dean's list.
- Computer Science: DSA, Programming Languages, Soft Dev, OS, Deep Learning, Autonomous Vehicles (second course).
- Mathematics: Discrete Math, Prob+Stats, Diff Eq, Number Theory, Intro Analysis, Abstract Algebra, Differential Geometry.
- Previously employed by Vanderbilt as a Course Grader for Programming Languages, CS & Math tutor for student-athletes.
- Member of the Vanderbilt Zeta Chapter of Pi Mu Epsilon, a national math honors society.
- Specially invited by world-renowned Dr. Arthur Demarest to join his three student seminar course in anthropology ethics.
- Board member of the Vanderbilt Math Club, Chess Club, and Gamecraft. Writer for Vanderbilt's satire paper, the Slant.

Binghamton University, Vestal, NY (Aug 2022 – May 2023)

Bachelor of Science in Computer Science and Bachelor of Science in Mathematics (Double Degree)

- 3.92 GPA, Dean's list. Enrolled in graduate math.
- Employed by SUNY Bing to tutor computer science. Eboard officer of Bing ACM & Bing Board Game Group, UniBuddy ambassador, Environmental Researcher with Dickinson Research Team.

Stuyvesant High School, New York, NY (2018 – 2022)

Top 10 public high school in the United States

- Four-year unweighted 4.0 GPA. 1540 SAT (790 Math). National Merit Scholarship Finalist
- Completed 10 AP courses and received nine 5s, one 4 on AP exams. Excelled in four honors math and physics courses.

EXPERIENCE

Systems Software Intern, Sapeon Inc, San Jose, CA (Jun 2024 – Aug 2024)

Tech Stack: C, C++, Sapeon SDK, Sapeon Device Drivers, CMake, Docker

- Systems software dev for Sapeon Inc, the AI accelerator research division of SKT, South Korea's largest wireless carrier.
- Implemented the Sapeon Collective Communications Library to enable multiple X330 accelerators to share an ML task.
- Updated the X330 functional simulator from supporting one virtual X330 to any number of virtual X330 devices.
- Debugged problems with kernel and userspace drivers to use DMA buffers for data transport between X330 accelerators.
- Wrote automated testing for all new libraries and improvements.
- Internship concluded as Sapeon discontinued its U.S. operations.

Technical Co-Founder, Career Clarifier LLC., Fort Myers, FL / Remote (Oct 2020 – Present)

Tech Stack: Python, Flask, SQL, Unicorn, Redis, WKHTMLToPDF, Celery, JS, Selenium, NGINX

- Founding partner of an online business that helps college students and graduates identify their best career options.
- Responsible for: fullstack dev, databases, APIs, web sec, pdf generation, async tasks, memory management, and scaling.

Junior Consultant, Mesh Digital, LLC., West New York, NJ & Remote (Summer 2022)

Tech Stack: ExpressJS, Selenium, Locust, SonarQube, automated CI/CD pipelines, Ghost CMS

- Assisted in creating the Mesh Digital Content Management System.
- Attended professional meetings with consultants and took minutes.

PERSONAL PROJECTS

A Guide to Time Travel github.com/MaretRudAul/Time_Traveler_Website (2024)

Tech Stack: Typescript, Angular, Tailwind, Django, Redis, Docker, SQL, websockets

- A website that enables users to allege that they've time traveled to the past with a message from the future.

The Adventurer's Terminal github.com/MaretRudAul/The_Adventurers_Terminal (2025)

Tech Stack: Python, OpenAI API, Pydantic, FAISS, sentence transformers, JSON

- Built an AI-driven text RPG with persistent memory, hierarchical world locations, and dynamic narrative generation.