

# Maret Rudin-Aulenbach

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## TECHNICAL SKILLS & ABILITIES

C++, Python, Typescript, C, PyTorch, scikit-learn, React, Flask, Django, Git, Docker, Redis, Tailwind, Java, SQL, Prisma, Angular, Selenium, Julia, Simulink, machine learning, deep learning, device drivers, autonomous vehicles.

## EXPERIENCE

### Software Engineering Intern, PodPlay, New York City, NY (June 2025 – Present)

Tech Stack: React, Next.js, NestJS, Prisma, Typescript

- Improved web accessibility by **reducing accessibility errors from 371 to 13**, enhancing inclusivity and **positively impacting SEO performance**.
- Scaled tenant-term framework** beyond one field, **expanding clientele** & enabling custom terminology.

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

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

- Implemented a collective communications library** to enable multiple Sapeon X330 accelerators to share machine learning workloads, **expanding the platform's scalability** for multi-device execution.
- Enhanced the X330 functional simulator to support multiple virtual devices, enabling testing and development for **distributed machine learning workloads** across multiple accelerators.
- Debugged kernel and userspace drivers** to enable DMA buffer data transport between accelerators
- Developed automated tests** for new features to ensure correctness and stability.

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

Tech Stack: Flask, SQL, Redis, Celery, Nginx, Unicorn, Selenium, WKHTMLToPDF, OpenAI API

- Built and scaled a web platform in partnership with top NYC career coach Jeff Neil, **helping 1,000+ students and graduates** receive **AI-powered career guidance** and **driving \$15,000+ in revenue**.
- Designed and **implemented asynchronous multithreaded processing** to automatically **generate a PDF report 82% faster** than single-threaded generation.
- Handled full deployment** with NGINX, Unicorn, and cronjobs to ensure stable cloud production.

### Junior Consultant, Mesh Digital, LLC., West New York, NJ & Remote (June 2022 – August 2022)

Tech Stack: Express.js, Selenium, Locust, SonarQube, automated CI/CD pipelines, Ghost CMS

- Built a custom CMS** with Express.js to support digital marketing and streamline content delivery.
- Took meeting minutes with **professional consultants** to support coordination and communication.

## EDUCATION

### Vanderbilt University, Nashville, TN

**Master of Science in Computer Science** | May 2026 | 4.0 GPA

- Will begin deep learning research for medical imaging with Dr. Yuankai Huo in Fall 2025.

**Bachelor of Science in Computer Science & Mathematics** | May 2026 | 3.73 GPA, Dean's List

- Course Grader for Programming Languages, CS & Math tutor for student-athletes.

**Binghamton University, Vestal, NY (2022-2023)**

**Stuyvesant High School, New York, NY**

Top 10 public high school in the United States | June 2022 | 4.0 GPA

## RELEVANT COURSEWORK

**Graduate:** Algorithms, Foundation of ML Autonomous Vehicles, Fundamentals of Computer Security Research

**Undergraduate:** DSA, Software Development, Deep Learning, Autonomous Vehicles (2<sup>nd</sup>), Operating Systems

## PERSONAL PROJECTS

### Autonomous Vehicle (2025)

- Developed autonomous vehicle routing algorithm** with consideration for turning optimization, speed limits, and waypoint generation to improve decision making in Julia simulation.
- Conducted localization testing & enhanced perception system clustering to reduce duplicate detections.
- Awarded 2nd Place in class** competition for best overall autonomous vehicle performance.