

CONNOR M. CARPENTER

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EDUCATION

Carnegie Mellon University, School of Computer Science Pittsburgh, PA
Bachelor of Science in Computer Science; Concentration in Machine Learning *Expected May 2028*

- Cumulative GPA: 3.84/4.00
- **Relevant Coursework:** 15-213 (Intro to Computer Systems), 15-259 (Probability & Computing), 15-445 (Database Systems), 10-301 (Introduction to Machine Learning), 17-313 (Foundations of Software Engineering)

EXPERIENCE

Persona Machines [↗](#) Pittsburgh, PA
Co-Founder & Chief Technology Officer *May 2025 – Present*

- Engineered the end-to-end **DeepCloak MVP** from scratch, deploying a responsive SvelteKit frontend on Vercel and a high-concurrency FastAPI backend on Railway backed by Neon (PostgreSQL) and SQLAlchemy.
- Under the advisement of Ruslan Salakhutdinov (VP of Research, Meta), architected the platform's novel privacy protocols, leveraging this technical differentiation to secure acceptance into the NVIDIA Inception program.

F2 Supplements [↗](#) Huntington Beach, CA
Co-Founder & Chief Operating Officer *Jan. 2025 – Sep. 2025*

- Spearheaded all business and operational strategy, overseeing product development, supply chain management, and go-to-market initiatives that established the company from the ground up.
- Built and delivered the company's full-stack e-commerce platform using SvelteKit, Supabase, and Tailwind, integrating Stripe to automate the end-to-end order fulfillment and payment processing.

NASA Langley Research Center Hampton, VA
Dynamic Systems & Controls Intern *Jun. 2024 – Aug. 2024*

- Programmed software in MATLAB for the calculation of Sliced-Normal distributions which characterize complex, multivariate data sets with multiple modes and strong dependencies.
- Created a library of custom functions for enhancing existing datasets through virtual data augmentation.

The Center of Excellence for Engineering Biology New York, NY
Software Engineering Intern, Genome Project-write *Jun. 2023 – May 2024*

- Developed and refined core features for the computer-aided design (CAD) platform for genome editing within an agile team, directly supporting an international community of over 200 researchers.
- Constructed and deployed serverless backend services using Python and AWS Lambda to power the platform's genome synthesis and editing capabilities.

Thomas Jefferson National Accelerator Facility Newport News, VA
Research Intern *Jun. 2023 – Aug. 2023*

- Processed and analyzed large-scale experimental data from electron-proton collisions, developing scripts in C++ and Python within the ROOT framework to deliver a new estimation of the proton charge radius.
- Designed and built an educational platform featuring tutorials and code examples to streamline and accelerate the onboarding of new researchers onto the lab's ROOT analysis software.

PROJECTS

Dynamic Memory Allocator | C, Systems Programming, GDB *Coursework: 15-213*

- Designed a custom implementation of the C standard library `malloc`, `free`, and `realloc` functions to replace the system default.
- Implemented a segregated free list with immediate coalescing to minimize external fragmentation, achieving high throughput and memory utilization scores.

SKILLS

Languages: Python, TypeScript, SQL, C/C++, Java, SML, HTML/CSS, R, MATLAB
Frameworks: SvelteKit, FastAPI, React, Node.js, Tailwind CSS, SQLAlchemy
Tools & Platforms: PostgreSQL, Supabase, Neon, Vercel, Railway, Docker, AWS, Git, Vim
Spoken Languages: English, Spanish