Connor M. Carpenter

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github.com/connorcarpenter15

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