

Grace Jin

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About Me: Penultimate-Year Computer Science student at Cornell University seeking off-season (Spring/Fall/Winter) Software Engineering internships/co-ops

EDUCATION

Cornell University , College of Engineering B.S. Computer Science, Minor in Artificial Intelligence	Expected May 2027
<ul style="list-style-type: none">Relevant Coursework: Systems Programming, Compilers in C++, Computer Graphics: Physically Based Rendering*, Data Structures and Algorithms, Digital Logic and Computer Organization, Embedded Systems, Computer Graphics, Machine Learning* (*Spring 2026)Organizations: Grace Hopper Celebration 2025, Cornell XR Project Team Co-Founder, Rewriting the Code, WICC	

EXPERIENCE

Software Engineering Intern LinkedIn, Mountain View, CA	May 2026 - Aug. 2026
<ul style="list-style-type: none">Incoming Systems/Infrastructure C++ software engineering intern for Summer 2026	
Software Engineering Intern Cepton Technologies, San Jose, CA	May 2025 – Aug. 2025
<ul style="list-style-type: none">Built a real-time WGPU-accelerated 3D visualization pipeline on Linux systems to simulate LiDAR data rendered over synthetic autonomous vehicle driving geometries at 60+ FPSImplemented WGSL compute shaders to perform parallel raycasting for ML model training data collectionBuilt a 3D environment reconstruction system in Rust to generate simulator depth maps integrated within GPU pipelineOptimized Rust legacy code to use standard transformation techniques such as matrix SVD and affine transforms, reducing computation time by 40% in internal benchmarksAuthored engineering blog post documenting this graphics pipeline: developer.cepton.com/blog/AR_simulator	
Lead Software Developer Cornell Center for Teaching Innovation, Ithaca, NY	Oct. 2024 – Present
<ul style="list-style-type: none">Develop 3D Unity visualizations of Gauss's Law and EM waves for a 500+ student electromagnetism course with 2000+ playthroughs, funded by a grant for exemplary educational projectsSupport 30+ students prototyping AR/VR apps on Meta Quest, Unity and Snap OS, resulting in 10+ new project launches within 4 months	
Software Developer Cornell People and Robots Teaching and Learning (PoRTaL), Ithaca, NY	Aug. 2024 – May 2025
<ul style="list-style-type: none">Implemented 20+ training tasks with PDDL, improving LLM reasoning with complex and asynchronous tasksEngineered a PyGame interface to generate thousand-line JSON specs for an LLM planning benchmark, cutting significant manual programming time for team of 12	

PROJECTS

Graphics Rasterizer Engine - Custom 3D Rendering [GitHub] C++, SDL2, CUDA, Blender	Jul. 2025 – Present
<ul style="list-style-type: none">Build a custom graphics renderer from scratch with a multi-pass rendering pipeline and BVH partitioned ray tracing options capable of rendering 50k+ vertices at 30+ FPSImplement a 3D engine with SDL2 to bridge user input with hierarchical object editing and animationMigrating to CUDA for GPU parallelization with a current 5x performance improvement over base CPU implementation	
NeuroScent - MIT Reality Hack "Smart Sensing" Winner [DevPost] C#, Unity, OpenBCI, Arduino	Jan. 2025
<ul style="list-style-type: none">Led team of 5 to develop an immersive VR olfactory biofeedback system and Galea EEG data processor for mental well-being enhancement, won out of 400+ competitorsIntegrated Unity to render calming scenes and trigger Arduino-controlled diffusers upon detecting abnormal biofeedback	
RISC-V Pipelined Processor SystemVerilog, RISC-V ISA	Oct. 2024 – Dec. 2024
<ul style="list-style-type: none">Implemented a 5-stage pipelined processor with hazard detection, stall, squash, and bypass logicWrote SystemVerilog test benches to unit test submodules and ensure accurate instruction executionSimulated processor with Quartus simulation tool to efficiently debug processor issues	
Computer Science Content Creator [Instagram]	Aug. 2019 – Present
<ul style="list-style-type: none">Built an audience of 18K+ followers and 3M+ video views by posting computing topics, personal projects and digital art	

SKILLS

Computer Languages: C++, C, Rust, Python, JavaScript, Typescript, Java, HTML, CSS, ARM Assembly, SQL

Web Technologies & Frameworks: WebGPU, OpenGL, WebGL, Vulkan, WGS, Three.js, React, Vue, Django

Development Tools: Linux, Git, CUDA, GCC, GDB, RTOS, Docker, Gradle, CI/CD, Unity, Figma, Blender