

EDUCATION	Yale University	New Haven, CT
	B.S. Computer Science, GPA 4.0/4.0	
	Aug 2019 – May 2023	
	Relevant courses	Data Structures, Algorithms, Systems Programming, Computer Organization, Artificial Intelligence, Computer Graphics, Discrete Mathematics, Linear Algebra & Matrix Theory
	Extracurriculars	VP of Engineering of UX Society at Yale; Design Chair of Yale Computer Society (y/cs)
.....		
EXPERIENCE	Facebook	(Remote) Menlo Park, CA
	Software Engineer Intern	
	Jun 2021 – Present	
	– SWE intern on the Algorithmic Optimization team.	
	Yale Peabody Museum of Natural History	New Haven, CT
	Software Engineer (GitHub)	
	July 2020 – Present	
	– Developed desktop app which controls a multi-camera photogrammetric 3D reconstruction system.	
	– Integrated programmable OpenGL pipeline and removed all fixed-function calls to allow for graphical flexibility, implemented GPU instancing to reduce draw calls, reduced frame render times by over 80%.	
	– Implemented pub/sub & MVC design and docstring conventions to allow for extensibility and maintenance.	
– Leveraged knowledge in Git, Python, OpenGL, OOP; used wxPython, numpy, GLM, GLSL shaders.		
Software Developer Intern		June 2020 – July 2020
– Implemented 3D viewport by researching CAD paradigms and FOSS to allow for an intuitive experience.		
– Practiced Agile and Scrum in 1-2 week sprints in a team of 3 developers.		
– Leveraged knowledge in Git, Python, OOP; used wxPython, OpenGL, C++, Perl.		
Yale University		New Haven, CT
Computer Science Teaching Assistant		Jan 2021 – May 2021
– Undergraduate Learning Assistant for CPSC 223, Data Structures and Programming Techniques.		
– Held 6+ hrs/week office hours, helped undergraduates on course assignments and data structures topics.		
Source Development Hub		(Remote) New Haven, CT
Data and Engineering Intern		June 2020 – Present
– Designed a data aggregation platform to process housing program and subsidy records from unstructured datasets; created an online database of affordable housing for the Connecticut Department of Housing.		
– Developed and tested Python Pandas scripts; parsed and geocoded 10,000+ unstructured addresses.		
NIST Information Technology Laboratory		Gaithersburg, MD
VR Research Intern (website)		June 2018 – Apr 2019
– Developed an interactive virtual reality graphics website to represent 180+ 3D surfaces in the DLMF dataset; used A-Frame, THREE.js, and physics libraries to enable VR controllers to manipulate 3D models.		
– Awarded Outstanding Poster Presentation award; work presented at SIGGRAPH 2018 BOF session.		
.....		
PROJECTS	Ray Tracing Renderer	Computer Graphics
	– Wrote ray tracer in C++.Implemented diffuse and Phong shading, mirror and glossy reflections, refractions and fresnel effects, soft shadows, jittered supersampling, and a bounding volume hierarchy (BVH).	
	Bulletin VR (GitHub)	Social WebVR
	– Developed VR website using A-Frame and THREE.js that allows users to post anonymous transcribed messages on a virtual bulletin board to tackle social anxiety; inspired by campus message boards.	
– Won the Best Gaming/VR Hack at YHack 2019, out of 140+ submissions and 400+ participants.		
.....		
TOOLS	Languages	C++, C, Python, Java, JavaScript, R, Scheme, HTML, CSS
	Technologies	UNIX, Git, OpenGL/GLSL, wxWidgets, Android Studio, LaTeX, Illustrator, InDesign, Fusion 360