

Experience

AI Engineer Intern | Renoverse AI | APR 2026 — MAY 2026

Building AI-powered product experiences for architects

Software Developer | Fractal Tech NYC | FEB 2026 — PRESENT

Built and shipped 10+ full-stack apps, software tools, and AI research projects with 528+ commits and 370+ PRs — created RhinoMCP (an MCP server bridging Rhino 3D and AI agents for computational design), multiplayer games, 3D environments, dungeon crawlers, and AI-powered tools using React, Next.js, TypeScript, Python, Three.js, and WebSockets, with a focus on 3D modeling, architecture-software integration, and Claude Code research

Architectural Intern | Studio KZ + Scottsdale Design Build | MAY 2022 — JUL 2023

Developed drawing sets through the CD & CA phases for both residential & commercial projects, built 3D SketchUp models for client presentations, participated in on-site field & construction work, assisted with contractual review, collaborated on structural calculations and detail design, drafted plans, elevations, sections & details for custom homes

Gallery Educator + Greeter | Wrightwood 659 | APR 2024 — JUL 2024

Engaged & educated visitors on architecture & artworks, developed research & “educator talk” on artist

Gallery Service Assistant | Gallery 1957 | Expo Chicago | APR 2023

Engaged with potential clients, learned artists & their works quickly, promoted & represented artists to the public

Tech Stack

FRONTEND: React 19, TypeScript, Tailwind CSS, Vite, Shadcn UI, Radix UI, React Router, MDX

BACKEND: Node.js, Express.js, FastAPI, Bun, WebSockets, Python

FULL-STACK & AUTH: Next.js 15, Supabase (PostgreSQL), BetterAuth, Firebase, NextAuth

DATABASES: PostgreSQL, SQLite, Supabase

AI / LLM: Anthropic SDK (Claude), Model Context Protocol (MCP), Vercel AI SDK, Agents & Tool Use, RAG, Workflow Orchestration, Multimodal I/O, Streaming & Real-Time Systems

3D & GRAPHICS: Three.js, React Three Fiber, PixiJS v8, Rhino Python API

TESTING: Vitest

DEVOPS: Docker, Terraform, GitHub Actions, Vercel, Netlify, Sevalla, Render, AWS EC2, AWS S3, GCP Compute Engine

OBSERVABILITY: OpenTelemetry, Grafana, Prometheus

ARCH & CAD: AutoCAD, Rhino + V-Ray, SketchUp, Lumion, Adobe Creative Cloud, Laser Cutting

Education

Illinois Institute of Technology | Bachelor of Architecture (NAAB Accredited) | 2020 — 2025

GPA: 3.71 | Summer Study Abroad Course: Japan 2023 | U.S. Department of Energy Solar Decathlon

Westwood High School | International Baccalaureate | 2016 — 2020

Class Rank: 1 out of 638 | GPA: 5.0 | Seal of Biliteracy & NHS Seal

Recognition

AWARDS & HONORS

Dwight T. Black Memorial Scholarship Nomination 2024

U.S. Solar Decathlon Finalist 2024

Anderson Presidential Scholarship 2022 — PRESENT

Camras Scholarship 2020 — 2025

Dean's List 2021 — 2025

ORGANIZATIONS & LEADERSHIP

Camras Scholars Mentor 2020 — 2025

IIT Art x Architecture (AIAS) Director 2021 — 2024

Kappa Phi Delta — Assistant Secretary 2022 — 2024