

Nathan Delcid

Kaufman, TX

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EDUCATION (STILL IN PROGRESS)

BS Computer Science

August 2021 - May 2026

University of Colorado Boulder

Boulder, CO

Relevant Coursework: Machine Learning, Computer Vision, Algorithms, Linear Algebra, Fundamentals of HCI, Artificial Intelligence

Universidad Carlos III de Madrid

January 2024 - May 2024

Madrid, Spain

Relevant Coursework: Operating Systems, Software Development, Principles of Programming Languages

SKILLS

Languages: Python, C/C++, Java, JavaScript/TypeScript, Rust, Scala, OCaml

Frontend: React (Next.js, Vite, Svelte), Vue.js, PyWebView, GTK+, JUCE

Backend: FastAPI, Flask, Django, Node.js (WebSockets)

DBMS: Supabase, ChromaDB, MySQL, SQLite, MongoDB, Supabase

DevOps: AWS, Render, Heroku, Glitch, Vercel, Fly.io, Docker

Others: Git, Operating Systems (macOS, Linux, Windows), Soldering, Hardware Engineering, Microcontrollers (Raspberry Pi/Arduino/PCB projects), Communication, Data Analytics

EXPERIENCE

Founder & CEO

New York, NY

Overture

Feb 2025 – Present

- Founded an AI-driven music technology startup developing **Maestro**, a natural language-powered music production assistant for DAWs.
- Designed product roadmap and led a team of 6 to build core NLP and audio processing models.

Computer Technician

Boulder, CO

Office of Information Technology – CU Boulder

Jul 2024 – Apr 2025

- Provided IT support for 500+ students and faculty, resolving hardware/software issues, system configurations, and network connectivity.
- Supported installations for enterprise tools (Adobe Suite, Microsoft 365, Gaussian) and performed virus/malware removals.

EXTRACURRICULARS

The Boring Company

August 2021 - August 2022

CU Hyperloop - Tunnel Support Subteam: Rapid prototyped a 1/4th scaled version of our tunnel boring machine. Analyzed optimal materials for manufacturing

NASA COSG Consortium

August 2022 - March 2023

WARP SPEED Team Member: Collaborated with a diverse team to build a high-altitude balloon payload, participated in skill-building workshops and project proposal activities, and prepared for advanced projects in subsequent semesters.

PROJECTS

Binomial Options Pricing Calculator & Lattice Visualizer

A React-based visualization tool that models the Binomial Option Pricing Model with an interactive lattice diagram and real-time American option price calculations. Users can adjust parameters like stock price, time to expiration, volatility, and steps, while enjoying a responsive design, smooth UI animations, and a reset-to-default feature, all built with React 18, TypeScript, Vite, and Tailwind CSS.

Computer Using Agent

A Self-Operating Computer Framework that enables multimodal AI models to autonomously interact with desktop environments through a “see, think, act” loop. The system leverages Microsoft’s OmniParser for OCR and finetunes YOLO models with Roboflow datasets for UI element detection, enabling precise on-screen navigation and command execution. Integrated support for GPT-4o, Gemini Pro Vision, Claude 3.5 Sonnet, and local models via a modular API design, with Docker-based deployment and automated evaluation for reliability.