

Hudson H. Tinch

Developer & business student — production software, hardware, and the systems in between

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■ EXPERIENCE

Developer & Facilities Support Intern — Integrity Marketing Group

SUMMER 2026

Via Hollis Bloom · Fountain Place, Dallas, TX

- Shipped the facilities work-order platform that runs the building daily — a React/TypeScript SPA on Supabase with **331 serverless functions**, **1,484 database migrations**, and **8 role-based portals**.
- Consolidated request intake into **5 channels** — web, email, iOS, Siri, and Microsoft Teams — with AI parsing of emails into routed work orders.
- Built the Microsoft Teams bot staff use to create and track work orders, get daily briefings, and file job photos from chat.
- Left the platform in production; rollout across Integrity's Dallas locations is underway.

Back-End Developer — Hollis Bloom

2019 — PRESENT

Dallas, TX

- Build and maintain back-end infrastructure for production client sites — React, TypeScript, Supabase/Postgres, Stripe ACH, QuickBooks, Cloudflare.
- Shipped an online donation system and fully responsive rebuilds for clients including Prison Chapels.

C Programmer — The Farah Law Firm

2023 — 2025

Dallas, TX

- Built a proprietary C system for large-scale data scraping, aggregation, archiving, and marketing distribution.
- Automated forcible-detainer legal workflows; platform expanding to firms across Texas and Louisiana.

Founder — Dimensional Design 3D

2014 — 2020

- Founded a 3D printing business at age eight; ran design, production, and sales for six years.

■ PROJECTS

RH Agentic PYTHON / JS

Autonomous trading system on the Robinhood API; agents scan markets, run analysis, and place orders, reporting to an encrypted live dashboard.

Members Moments VANILLA JS

Shoppable creator-video feed prototyped into the Sam's Club homepage; qualified through the pitch round and presented at McMillon Demo Day, Spring 2026 (largest cohort to date, 18 teams).

AVR Drone C++ / PYTHON

Captained an autonomous competition drone using A* pathfinding to a top-10 finish (8th) at Bell Advanced Vertical Robotics nationals — 3rd in presentation.

NeatFreak PYTHON / OPENCV

Turns a photo of an object into a 3D-printable organizer tray (STL/OBJ, Gridfinity); live in-browser demo at hudsontinch.com.

hudsontinch.com HTML / CSS / JS

Hand-built portfolio — interactive wireframe terrain, a WebGL grain shader, and a working Windows 95 desktop hidden inside.

■ EDUCATION

University of Arkansas

Sam M. Walton College of Business — BSBA

EXPECTED MAY 2029

Honors College · **4.0 GPA**

throughout — Chancellor's List every semester · McMillon Innovation Studio

Highland Park High School

2021 — 2025

■ SKILLS

LANGUAGES

TypeScript, JavaScript, Python, C/C++, SQL

WEB & BACK END

React, Node.js, Supabase/Postgres, Stripe, Cloudflare

HARDWARE

Arduino, KiCad/PCB design, 3D printing, AutoCAD

■ AWARDS & LEADERSHIP

Chancellor's List — 4.0 every semester

HP Robotics — Team Captain

Wharton GYP — Best Presentation, elected CEO

Duke Pre-College — Pitch Competition Winner

Georgia Tech SI — Highest Presentation Score

Presidential Service Award