Anthony Salto

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Education

The University of Texas at Dallas — Richardson, TX
B.S. in Software Engineering — *Expected May 2027*
- **Relevant Coursework**: Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Operating Systems
- **Scholarship**: UTD Top 10% Scholarship

Dallas College — Richardson, TX
Associate of Science — *Aug. 2019 – May 2023*

Experience

Software Developer & Documentation Manager — Aug 2026 – Present
UTDesign EPICS | The Samaritan Inn — *Richardson, TX*
- Own the Appointments feature end to end (requirements, Prisma schema, APIs, React UI) in a Next.js/TypeScript platform replacing paper and spreadsheet workflows for ∼**170** residents and **20** caseworkers, launching Dec 2026
- Moved appointment booking from Salesforce to Microsoft 365 Bookings, adding caseworker-resident assignments and **4** role-based views

Undergraduate Student Researcher — Aug 2026 – Present
The University of Texas at Dallas — *Richardson, TX*
- Researching why runtime safety guardrails fail on open-source AI agents (overblocking, compositional hazards); audited AutoGPT's tools, state, and sandboxing, mapping **17** tools and ranking the highest-risk ones
- Building an evidence-based failure taxonomy from **20+** real-world agent incidents (GitHub issues, AI Incident Database), with a planned dataset of **150+** behavior traces from **10** open-source agents, toward a co-authored research paper

AI & Frontend Engineer | Project Mentor — May 2026 – Aug 2026
The University of Texas at Dallas — *Richardson, TX*
- Architected a **4-service** FastAPI system that dispatches each question to the **1–3** specialist agents it needs in parallel, returning a synthesized overview in about **8 seconds** with all 3
- Led integration for a **4-person** team, defining the REST contract and shared Postgres schema for independent agent builds, then unifying them behind one orchestrator with per-agent failure isolation
- Built the RAG pipeline without orchestration frameworks (PDF/DOCX/TXT ingestion into **500-character** chunks, similarity search over Supabase pgvector) and the React/TypeScript frontend with Supabase Auth
- Mentored **4** students through brainstorming, environment setup, design decisions, API implementation, and code reviews

Software Engineer Intern — May 2026 – Aug 2026
Luminator Technology Group — *Plano, TX*
- Authored the Software Requirements Specification for a next-generation ePaper CMS across **15+** stakeholder meetings in under half the planned **3 months**; approved by engineering, co-presented to the CEO and corporate board, and now guiding the build
- Led a **1.5-month** build with an AI innovation engineer, turning **2** AI-prototyped dashboards into production-grade software (React, TypeScript, Python, Supabase, Azure AI) for global transit and rail operators
- Configured **7** CI/CD pipelines in GitHub Actions and Azure Pipelines across **2** codebases, including AI PR reviews that flagged type and method-level issues in trial PRs and an AI checker that validates PR code against .md docs, replacing manual doc review

Projects

sysketch | *TypeScript, Node.js, MCP, Vercel, GitHub Actions* — Oct 2026 – Present
- Built and published sysketch, an open-source diagramming engine and MCP server that lets AI assistants (Claude, ChatGPT, Cursor) draw architecture diagrams from short YAML specs; **1,600+** npm downloads in its first week
- Cut AI output tokens **17.8x** and generation time **5.3x** vs. model-drawn SVGs in a **5-diagram** benchmark
- Shipped a TypeScript monorepo (CLI, local MCP server, hosted Vercel endpoint, live browser demo) with GitHub Actions CI and automated npm releases

Clipboard+ | *React, TypeScript, Chrome Manifest V3, Swift, Playwright* — Apr 2026 – Present
- Shipped a local-first clipboard manager on the Chrome Web Store (**210+** installs) that classifies text, links, and code, with opt-in website capture that never records password or payment fields
- Engineered a serialized Manifest V3 service-worker queue so overlapping syncs import each capture exactly once and never acknowledge one before its storage write succeeds

LSTM Weather Forecasting | *Python, NumPy, Pandas, Scikit-learn, Matplotlib* — Nov 2025 – Jan 2026
- Built a complete LSTM network from scratch in NumPy (all gate operations, BPTT, gradient clipping, and the Adam optimizer) without deep learning frameworks
- Achieved **2.60°C** RMSE on real-world Seattle weather data across **1,461** daily records, outperforming a persistence baseline (**2.93°C**) and linear regression (**2.75°C**)

Skills

Languages: Python, TypeScript, JavaScript, SQL, Java, C++, Swift, HTML/CSS
Frameworks & Libraries: React, Next.js, Node.js, Express.js, FastAPI, Prisma, TailwindCSS, NumPy, Pandas
AI & ML: LLM APIs (Azure OpenAI, OpenAI), RAG, Multi-Agent Systems, MCP, pgvector, Embeddings
Cloud & DevOps: Azure, Azure DevOps, GCP, Docker, Linux, GitHub Actions, Vercel
Databases & Tools: PostgreSQL, Supabase, Git, Playwright, Vitest