

Matthew Vijayasegar

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Education

University of Michigan

B.S.E. in Computer Science, Minor in Mathematics

Ann Arbor, MI

Expected May 2029

SAT: 1580/1600 (800 Math, 780 Reading and Writing).

Relevant coursework (in progress): Proof-Based Linear Algebra (MATH 217), Discrete Mathematics (EECS 203), Programming and Introductory Data Structures (EECS 280).

Planned, Winter 2027: Data Structures and Algorithms (EECS 281), Computer Organization (EECS 370), Introduction to Analysis (MATH 297).

Experience

Tacitus Robotics | Cofounder

Jul 2026 – Present

- Cofounded a robotics startup building dexterous manipulation systems; designed a custom tendon-driven hand and force-driven MuJoCo simulations for mechanical validation.
- Adapting GPC (Generative Pretrained Controllers) from humanoid control to dexterous hand manipulation, combining skill tokenization via RL, next-token transformer pretraining, and parameter-efficient fine-tuning. [Read more.](#)

Dewy | Cofounder

2024 – 2025

- Cofounded, built, and shipped a native iOS skincare app that turns guided face capture and user context into personalized routines; peaked at 3.8k users.
- Grounded personalized recommendations in a product catalog and connected photo-guided assessments with daily routines and progress tracking.

Projects

Psephos America | Python, SQLite, MCP

Apr – Sep 2026

- Built a legal-research platform giving AI assistants access to federal, state, and local laws, regulations, and zoning information with citations to original sources.
- Implemented read-only MCP tools for exact-passage retrieval and location-based zoning lookup, backed by versioned publisher documents and explicit coverage gaps.

River | Swift, SwiftUI, Messages

May 2025

- Built native Texas Hold'em for iMessage and pass-and-play, so friends can play inside a conversation or around one iPhone without accounts or a backend.
- Carried game state in message URLs and built replayable multiplayer simulations to test recovery from disconnected players, duplicate messages, and out-of-order updates.

Leadership & Service

Riolu Detroit | Cofounder, Volunteer

2022 – 2026

- Cofounded a volunteer program that assisted 250+ older adults through 22 eight-week technology courses at St. Patrick Senior Center in Detroit.
- Reproduced recurring app problems observed in class and sent reports to product teams, turning classroom support into feedback aimed at broader accessibility improvements.

Technical Skills

Languages: Python, Swift, C++, SQL

Frameworks and libraries: SwiftUI, NumPy, pytest, Swift Testing

Databases: PostgreSQL, SQLite

Tools: Git, Xcode, MuJoCo

Activities & Interests

Michigan Chess Club; ping-pong; building things; trying new foods.