

Rishith Chennupati

I BUILD ROBOTS

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SUMMARY

I am 14. I build robots, and I started a company called Fetch to build ones that drive themselves. Six hackathon awards, two science fair wins, and 3,722 commits across 25 public repos last year.

EXPERIENCE

Founder, Fetch

2026 to Present · Bay Area

Robots that drive themselves. Three so far.

- Fetch** is a delivery robot for indoors. It works without GPS or lidar because you drive it the route once and it plays that back. It won **1st place overall at CSI Hacks** and was built in 8 hours.
- Prometheus** is a hexacopter I built from parts to spot wildfires early. 850 mm carbon frame, six motors, a Pixhawk flight controller with a Raspberry Pi 4 driving it over MAVLink. It took seven months and flew for the first time this month.
- Ceres** is a farm rover that drives up to a plant and puts a probe in the soil to work out what is wrong with it. **2nd place at the Berkeley Robotics Hackathon.**

ML & Video Lead, Pegasus

2026 · Built with a team at Milpitas Hacks

Measures how stressed someone is from the way they type.

- I wrote the scoring service. It combines **text sentiment, typing biometrics, facial stress, voice stress** and drift from a TRIBE v2 baseline into one number.
- I also wrote the video and audio analysis and a RAG layer on sentence-transformers and Qwen2.5. Users who score red get sent to a person instead of a bot.

AWARDS & RECOGNITION

- ◆ **1st Place Overall, CSI Hacks @ Zoho.** For Fetch.
- ◆ **2nd Place, Berkeley Robotics Hackathon.** For Ceres.
- ◆ **Best Website and Design, Synthesis Hacks @ Google.**
- ◆ **2nd Place, Mental Health Track, Milpitas Hacks 3.** For Pegasus.
- ◆ **31st of 649** at an international hackathon.
- ◆ **Congressional recognition.**
- ◆ **Honorable Mention, WeMakeDevs Zero Downtime Hackathon,** San Francisco. Sponsored by SigNoz, Port.io and Bright Data.
- ◆ **Two-time consecutive 1st place, Challenger School Science Fair,** one of the most competitive private schools in the Bay Area. Won the second year for AutoDoor.

OPEN SOURCE ACTIVITY



CONTRIBUTION ACTIVITY · LAST 12 MONTHS

3,722
CONTRIBUTIONS / YR

Top 0.1%
OF GITHUB WORLDWIDE

10.2
PER DAY, EVERY DAY

The most active public committer on GitHub logs roughly **8,290** a year and the average account logs about **6.25** public repos across robotics, ML, systems and web.

SELECTED PROJECTS

- Voyage. Brain response model.** Guesses how someone's brain will react to an ad. A trained Meta TRIBE v2 encoder on Modal GPUs, a real fsaverage5 surface of 20,484 vertices in Three.js locked to the video frame, and citations from 6,827 papers in Supabase pgvector. When the evidence is thin it returns no score.
- Vyper. Racing drone.** A 220 mm airframe whose frame is a program, so I can change one number in it and print the whole thing again. 567 g, 139 km/h.
- Sentry. Wildfire prediction.** Takes NASA FIRMS satellite fire detections, guesses where the fire spreads next, and routes it to the nearest station by arrival time. Trained models for earthquake and flood risk as well.
- AutoDoor. Door opener.** A \$120 motor that bolts onto a door already hanging in its frame and opens it for someone who cannot pull it open. First place at the Challenger School Science Fair.
- Daisy.** A system that builds an app and then fixes it when it breaks. Honorable mention at the WeMakeDevs Zero Downtime Hackathon.
- Compass-RAG.** Retrieval-augmented generation written from scratch: custom embedding model, HNSW vector search, hybrid BM25 ranking, ReAct agent.
- Osmium.** An operating system written in C and assembly. It boots on bare metal and brings up a shell and a Python REPL.

TECHNICAL SKILLS

TOOLING	Claude Code, MCP servers, Modal, Docker, Git, Vercel
LANGUAGES	Python, C++, Swift, JavaScript, Lua
AI / ML	PyTorch, Transformers, TRIBE v2, Mixture-of-Experts, Flash Attention, RAG (HNSW + BM25), ReAct agents, TensorFlow, OpenAI / Anthropic / Gemini APIs
ROBOTICS	Mecanum kinematics, AprilTags, MAVLink / ArduCopter, stepper drive (A4988), IMU (BNO08x), Raspberry Pi, Arduino, RP2040, KiCad, CAD / 3D printing
WEB	Next.js, React, Tailwind, Three.js / R3F, FastAPI, Supabase, Firebase, bare-metal systems, Linux