

Amaar Chughtai

Engineer and founder, San Jose, California

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I build AI products end to end, from models to iOS and web apps, and do neural decoding research at Princeton. Before null0 and Cotton I founded Stellar, a free learning platform that reached 25,000 students by 2025.

Experience

null0	2025 – Present
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Founder

An AI agent that operates a Mac from plain language, carrying out real actions across apps.

In public beta.

TypeScript, macOS

Cotton	2025 – Present
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Founder

An iOS wardrobe that catalogs clothes from a photo and picks outfits for the weather.

Built the photo pipeline: image classification and background removal that tag each piece by type, color and style.

Expo, Next.js, Core ML, OpenAI API

Princeton University	2025 – Present
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Research analyst, neural decoding

Reconstructing what a person saw from fMRI, building on MindEye: mapping BOLD signals into the embedding spaces of vision models (CLIP, VGG-19).

Subject-specific fine-tuning on the Natural Scenes Dataset raised top-5 retrieval by 28% and CLIP similarity by 15% over a ridge-regression baseline.

Python, PyTorch

MindEye

Stellar Learning	2023 – 2025
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Founder

A free learning platform: 80+ courses across AP, IB, SAT and competitive math, reaching 25,000 students by 2025.

Trained Nova, our own tutor model, which generates interactive graphs and study material. 50+ contributors.

Nonprofit, sponsored by Hack Club.

Next.js, Svelte, Python, PyTorch, MongoDB

Pivyr	2024 – 2025
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Founder

Shopping search that tracks prices and where they are heading.

TypeScript, Next.js

WarriorBorgs, FRC Team 3256	2023 – 2025
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Senior developer, robot code and systems

Control software for the swerve drive and flywheel shooter, and a deterministic scouting-assignment algorithm for collecting data on 50+ teams.

FRC World Championship qualifier; Silicon Valley Regional finalist.

Java, C++

VC Assist

2021 – 2023

Lead engineer

Led a team of 35 building a student app for Valley Christian (iOS, iPadOS and desktop) for schedules and grades. 1,400 peak users.

Built the Node.js and Docker backend and the pipelines that keep grades in sync.

Swift, Electron, TypeScript, Node.js, Docker

Leadership and activities

Software Development Club, Valley Christian

Founder and president

Teaching students software development and how to design real products.

At the Intersection

Host

An open forum on technology and culture.

Math tutoring

Tutor

Pre-algebra through calculus.

Education

Valley Christian High School

San Jose, California

Skills

Languages	Python, TypeScript, JavaScript, Swift, Java, C++, C, Rust, SQL
Machine learning	PyTorch, TensorFlow, Hugging Face, CLIP, scikit-learn, Core ML, computer vision
Apps and web	React, Next.js, Node.js, Svelte, React Native and Expo, Electron, Tailwind CSS
Infrastructure	Docker, PostgreSQL, MongoDB, Redis, Firebase, Supabase, AWS, Vercel

Awards

TEDx speaker	TEDx
President's Award for Educational Excellence	U.S. Department of Education
USACO Silver	USA Computing Olympiad
Certificate of Merit, Level 10	Music Teachers' Association of California
Undefeated season, Public Forum debate	Coast Forensic League

Interests

Jazz piano (seven years, performing around the Bay Area) and astrophotography.

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