

# Harsh Singh

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## EDUCATION

**Purdue University** | May 2024

*Bachelor of Science, Computer Engineering*

**Cumulative GPA:** 3.90/4.00

**North Forney High School**

*High school diploma*

**Cumulative GPA:** 4.00/4.00

## EXPERIENCE

**MainBranch** | Washington D.C.

Jan 2025 – present

Technical Lead

- First technical hire. Led the engineering team to build AI agents for local government agencies.
- Recruited, interviewed, hired, and led a 10-engineer product team across frontend, backend, and infra
- Architected and shipped a scalable document ingestion and processing pipeline handling heterogeneous data sources
- Took the MainBranch product from zero-to-one, now being used by the City of Detroit

**Product Engineer** | San Francisco, CA

Independent

Sep 2023 - Apr 2025

- Built and shipped 0→1 products for early stage products (series A and earlier)
- Created early versions of AI-enabled features, data ingestion pipelines, and automation workflows
- Guided implementation of emerging technologies such as PlanetScale, Next.js 13, Cloudflare Workers, tRPC, Drizzle, and more
- Notable clients include Million.js, Quickpark Solutions, Roofer, Monument, Glimpse, Realm, Makebot, Kandy, and many other startups (stealth and launched).

**Dimension**

Apr 2023 - Sep 2023

*Software Engineer*

- Shipped a scalable inbox system, addressing concurrency, state consistency, updates, and performance
- Developed third-party integrations and ingestion pipelines with tools like Linear, Vercel, Slack, and more
- Built an event-driven automation system that analyzed inbound messages and automatically created issues, comments, etc.

**Dorm Pool** | Austin, TX

Jul 2022 - Apr 2023

*Founder*

- Ride sharing platform for UT students, facilitating 300+ rides across the state of Texas
- Owned product, engineering, and operations, directly interacting with students to resolve issues and refine the product
- Implemented the ride lifecycle and matching logic for a live ride sharing platform, including cancellations and concurrent updates
- Drove early user acquisition by marketing DormPool directly to UT Austin student clubs and organizations

## PROJECTS & OPEN SOURCE

**kmenu.dev** | 2022

- High performance, composable, accessible, responsive, and framework-agnostic command menu system
- 1,400+ weekly downloads, Product Hunt #10, and used by over 25 companies in production
- Built and maintained a widely adopted open-source project (800+ GitHub stars), reviewing external contributions, managing releases, and preserving API stability
- Drove early adoption by actively marketing kmenu in person, attending meetups and conferences to demo the product

**snip.tf** | 2020

- Open-source Pastebin alternative with no ads, tracking, or client-side bloat
- Comes with a CLI, Discord bot, public API endpoints, link shortener, and JavaScript client library
- 120,000+ active pastes created, over 2,500 monthly active users, and used in the Programmer's Hangout Discord community
- Shipped a high-throughput Rust/Actix Web service with async handlers, rate limiting, concurrency, and low latency access

**Qursor** | 2021

- Headless custom cursors for React (<6kB)
- Cross-browser support with lifecycle cleanup and consistent cursor states
- Tiny, modular core with lightweight API with minimal runtime overhead and predictable behavior across interaction patterns

**Groovy** | 2022

- Built a computer-vision-based recommendation system (pre-foundation model era) that used facial analysis to infer user preferences and suggest movies and TV shows
- 1st place at UMD Bytecamp 2022, winning across AI, innovation, and best use of data categories
- Implemented the full pipeline from face detection and feature extraction to preference modeling and content ranking

**Vaayu** | 2025

- Small, fast static site generator written in Go with markdown parsing, template rendering, and static asset generation

**dots** | 2020

- Arch Linux and i3wm configuration with a keyboard-driven workflow and sane defaults.

## SKILLS, APPEARANCES, & INTERESTS

**Skills:** AWS ECS, Fargate, TypeScript, React, Tailwind CSS, Node.js, PostgreSQL, Docker, CI/CD, Docker, Figma, Elasticsearch

**Appearances:** React Jacksonville, React DFW, Remix India, Prisma Meetup 7, Data on Kubernetes, CockroachDB Student's Day

**Interests:** Competitive Rowing, Chess, Art, Golf, Skiing, Archery, Photography, Piano, Fitness, Polo, Traveling, & Tennis