

Varun Sahni

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EDUCATION

Purdue University

B.S. Computer Science; Expected May 2028

- 3.92 GPA; Relevant Coursework: CS 180 (Object-Oriented Programming); CS 159 (C Programming).
- Focus: Computer Architecture, Algorithms, Systems, Optimization.

West Lafayette, IN

Aug. 2025 – May 2028

University of California, Berkeley (Summer Sessions)

Coursework in Computer Architecture & Data Science

Berkeley, CA

Summer 2023

- CS 61C: Comprehensive study of assembly, C, parallelism, pipelining, warehouse scale compute. (A-).
- DATA 8: Statistical analysis and inference to real-world datasets. (B+).

The Shri Ram School, Moulshari

International Baccalaureate Diploma Programme

Gurugram, India

2019 – 2025

- IB 40/45; IGCSE 9A*; CAIE Star of the Year.
- Head of ICT (Student Council)

EXPERIENCE

Paasa (YC S24, Fintech Startup)

Fullstack Developer Intern

Remote / Delhi, IN

Nov. 2024 – Jan. 2025

- Built admin panel (React/Python/SQL) tripling advisor productivity.
- Deployed infrastructure on AWS, reducing server costs by ~80%.
- Contributed to mobile app light mode UI and WhatsApp AI MCP server.

CortX (Healthcare Startup)

Co-Founder & Founding Engineer

Remote / India

2022 – 2024

- One of 5 core founding members; led development of a comprehensive medical management platform and won an international hackathon.
- Built full-stack product using React (frontend) and Express.js (backend).
- Recognized with the *Young Changemaker Award* by the Dept. of Biotechnology, Govt. of India.

Self-Directed Computer Vision Research

Researcher

Remote

Jun. 2023 – Jul. 2024

- Developed lightweight CNN for GI disorder detection (97.82% accuracy) on HyperKvasir.
- Presented at 5 venues: UMich AI Symposium, IEEE CICT, SLAS Data 2024, SCCUR, IFIC Zhejiang Lab.
- First-author IEEE publication approved (PDF available upon request).

SELECTED PROJECTS

Flux — Live data-streaming proxy API (flux.vsaahni.me | GitHub)

- Serverless-friendly SSE/WebSocket proxy for streaming from serverless environments; documented on my blog.

bun-sqlite-cache — Caching layer for Bun + SQLite (GitHub)

- Improves data fetch speed; 1K+ downloads.

Firewood — Video calling webapp (firewood.vsaahni.me)

- Peer-to-peer WebRTC app built for CS50x final project; 100+ registrations.

Minecraft Mod (KageMod) — Gameplay mod with 23K+ downloads

- Designed features and maintained community updates.

CS61CPU — RISC-V CPU in Logisim

- 5-stage pipeline implementation; explored hazards, caching, and memory.

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript/TypeScript, SQL (PostgreSQL, SQLite, MySQL), RISC-V

Frameworks and Runtimes: React, Next.js, Svelte/SvelteKit, Astro, Bun, Node.js, Flask, FastAPI, Django, Express, Fastify, TailwindCSS

ML: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Seaborn

Tools: Git, Docker, VS Code, Vim