



VEDH SONAWANE

Full-Stack and AI Developer | Hackathon Builder | Coding Instructor
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Abbey Park High School, Ontario | Expected graduation 2030

SUMMARY

Developer and coding instructor who has competed in seven hackathons across Ontario and online, built the application and judging portal for one of them, and taught programming to over 100 students. 42 repositories and roughly 9,800 GitHub contributions in the past year.

WHAT I BRING TO HACK THE 6IX

- Development: shipped a full hackathon application portal with multi step forms, autosave, organizer scoring, and automated decision emails, so I can contribute directly to the site, application flow, and judging tooling.
- Workshops and mentorship: teach and mentor over 100 students week to week, which maps onto beginner workshops, mentor coordination, and the help desk.
- Logistics and operations: planned and ran school wide events for children aged 5 to 12, handling scheduling, activity design, safety, and food logistics.
- Participant perspective: seven hackathons in the past year, in person and online, so I know what makes a weekend feel well run.

HACKATHON EXPERIENCE

• **EurekaHacks 2026**, Waterloo, ON *Soar May 2026* • **GenAI Genesis 2026**, Toronto, ON *Mar 2026* • **DeltaHacks 12**, Hamilton, ON *Neural Flux Jan 2026* • **Hack the Ridge 2025**, Oakville, ON *Dec 2025* • **Slack Agent Builder Challenge**, Online *VibeCheck 2026* • **UiPath AgentHack**, Online 2026 • **H0: Hack the Zero Stack, Vercel v0 and AWS**, Online 2026

SELECTED PROJECTS

EurekaHACKS Application Portal *React, TypeScript, PostgreSQL, serverless* • Built a themed hackathon application portal with a multi step registration form and draft autosave so applicants never lose progress. • Shipped an organizer dashboard for scoring applications, recording accept and reject decisions, and sending automated decision emails.

Vow *Next.js 15, TypeScript, Supabase, Tailwind v4* *vow-three.vercel.app*

- Built and deployed a mobile first PWA where small groups make one shared daily commitment. If any member misses without spending a wildcard, the whole group streak resets.
- Implemented Google auth, row level security, realtime sync, and browser native Web Push notifications delivered from a Vercel cron job, in strict TypeScript with no paid services.

VibeCheck *Node.js, TypeScript, PostgreSQL, Slack API, MCP* • Built a Slack team health agent that flags burnout and resignation risk weeks early using Canvas API, Block Kit, and Model Context Protocol tooling.

- Read behavioural signals such as response timing and participation only, never message content, so teams get insight without surveillance.

Destiny and Volo *Python, TypeScript, LLM tool calling* • **Destiny**: a local AI command centre for Windows combining system monitoring, project management, file search, persistent memory, a global command palette, and sandboxed AI tool calling.

- **Volo**: an autonomous task platform that takes a high level goal and handles the research, planning, and execution end to end. **Neural**

Flux *TypeScript, DeltaHacks 12*

- Built a fast paced game where the player acts as an AI answering human requests under time pressure, with scenarios generated

fresh each run and scoring on both speed and judgment.

Hardware and Robotics *Arduino, C++, Python, OpenCV* • Rover: an autonomous AI mobile assistant on an RC chassis combining computer vision, sensors, and onboard decision making. • Kivo and BreezeBrain: an AI desk companion and an adaptive Arduino cooling system with live LCD telemetry, both spanning embedded firmware and Python control software.

EXPERIENCE

Lead Sensei and Application Developer, Code Ninjas *Present* • Teach and mentor 100+ students in Python, JavaScript, C#, Unity, and MakeCode Arcade, from first block code lesson to working projects.

- Run programming bootcamps built around hands on, project based learning, coaching students through debugging and root cause analysis so they can unblock themselves.
- Built Python mini projects and automation scripts used as teaching material, contributing to 20% growth in student enrolment.

LEADERSHIP AND COMMUNITY

Founder, Python Club *School* • Founded and ran a school Python club, designing the curriculum and teaching students of all skill levels from the ground up. Recognized by the school for the initiative.

Event and Volunteer Roles *School and community* • Leadership Club: planned and ran school wide holiday events for children aged 5 to 12, covering scheduling, activity design, and day of coordination.

- Learning Buddies, Wee Walkers, and Pizza Helpers: mentored younger students and managed safety, logistics, and food handling during school programs.
- Community centre: organized library materials and helped run local events and birthday parties.
- Peer support: helped classmates through coding challenges and gave structured feedback on their work.

ADDITIONAL PROJECTS

- Bytee: fridge and pantry tracker that sends expiry alerts, suggests recipes from current inventory, and lets neighbours share surplus food. TypeScript.
- PromptDeck: turns a single text prompt into a complete Google Slides deck with dynamic themes and sourced images. Next.js, FastAPI, Groq.
- Soar: travel planner that converts social media swipes into a real itinerary. Built at EurekaHacks 2026. • FraudGen: generates synthetic fraud variants so detection models train on new attack patterns before they appear in production. • SIGNAL//LOST: a self evolving GitHub ARG where an AI rewrites the README daily with new lore and a new puzzle, solved by the community through pull requests and issues.
- CasperGuard, AquaPress, TypeFlow, and SkyPulse: WebAssembly security tooling, a hydraulic waste compaction concept, a human behaviour typing simulator, and a live weather and air quality app.
- ML From Scratch: linear regression, KNN, SVM, and classification diagnostics implemented from first principles in Python and NumPy, with no scikit-learn shortcuts.
- Several projects released under MIT licence, with a public daily commit streak and an ongoing open source contribution habit.

TECHNICAL SKILLS, AWARDS AND CERTIFICATIONS

Languages: Python, TypeScript, JavaScript, C#, C++, Rust, SQL, HTML, CSS, Bash

Web and Data: Next.js, React, Vue, Tailwind, shaden/ui, Three.js, Node.js, FastAPI, Supabase, PostgreSQL, REST APIs

AI and ML: OpenAI API, Groq, Gemini, MCP, prompt engineering, LLM agents, OpenCV, NumPy, core ML algorithms from scratch

Tools and Hardware: Git and GitHub, Vercel, AWS, Docker, Figma, Unity, Arduino, Slack, Google Workspace, Microsoft Office

Currently Exploring: Diffusion models, transformer architectures, and reinforcement learning. Reading Deep Learning by Goodfellow et al. and Designing Data-Intensive Applications by Kleppmann.

Awards: PCEP Certified Entry Level Python Programmer, Python Institute | Mathalon Knowledgehook Medal, 2023 | Spoken: English, French, Hindi