

Prajwal Prashanth – Engineering Physics

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TECHNICAL SKILLS

Languages & Frameworks: Python, C++, JavaScript, HTML/CSS, Flask, FastAPI, Next.js, MongoDB

AI/ML & Data: PyTorch, TensorFlow, Gemini API, OpenAI API, Groq, ElevenLabs, ChromaDB, Edge Impulse, Gradio, Manim, Prompt & Context Engineering, Agentic Engineering

Hardware & Engineering: Arduino Mega 2560, SolidWorks, 3D Printing & Prototyping

Developer Tools: Git & GitHub, VS Code, GitHub Copilot, Cursor, Linux, Supabase, Vercel

EXPERIENCE

Co-founder | Next.js, Python, MongoDB Jun 2026 – Present
Buildplate *Greater Vancouver, BC (Remote)*
• Building a portfolio platform for hardware engineering recruitment, connecting students to companies through project-based profiles.

Community DevOps Manager; Independent Contractor | Notion, GitHub Actions Feb 2026 – Jun 2026
BC + AI Ecosystem Association *Greater Vancouver, BC (Remote)*
• Designing and maintaining multi-platform community infrastructure for 1,000+ members via custom Discord and WhatsApp bots and automations; building the organization's GitHub presence with internal tooling and an open-source BC AI showcase directory.

PROJECT EXPERIENCE

Handy Andy: ASL Robotic Hand | C++, Arduino Jan 2026 – Apr 2026
Langara College *Vancouver, BC*
• Led a 4-person team as Project Manager to build a robotic hand that translates live English speech into ASL; engineered the hardware interfacing layer, pulley actuation mechanism, and full C++ codebase for Arduino with smoothing algorithms for fluid transitions.

3D-Printed Rubber Band-Powered Vehicle Sep 2025 – Dec 2025
Langara College *Vancouver, BC*
• Led a 6-person team as Project Manager through 10+ design iterations, producing a prototype travelling 10 meters (200%) farther and 20% faster than the previous year's record, winning both the distance and speed races and earning the team a 4% course grade bonus.

JARVIS for the Visually Impaired | Python, C++, Edge Impulse Jan 2024 – Dec 2024
The Knowledge Society (TKS) *Vancouver, BC*
• Developed a portable, wearable AI voice assistant providing real-time spoken descriptions of the user's environment and web-based Q&A with low latency; ported the core model to a low-power microcontroller using C++ and Edge Impulse for a standalone form factor.
• Secured a \$1,000 Regional Award grant from Ingenious+ to fund continued development; presented at 4 Vancouver AI Community Meetups, gathering iterative feedback from local AI professionals.
• Work recognized by the co-founders of Gumloop, who extended an internship offer based on the demonstrated technical skills.

Improving Google's Internal Announcements System | Gemini API, RAG Dec 2023, Aug 2024
The Knowledge Society (TKS) *Vancouver, BC*
• Designed and built an MVP of a centralized announcement platform using Google's Gemini LLM and RAG to deliver personalized updates to Google's sales teams.
• Engineered an AI chat interface allowing employees to query product changes, receive context-aware answers from internal documentation, and reduce time spent searching for information.
• Ranked as the top solution out of 100+ submissions by Google Canada; presented to a panel of judges including the Global Head of Partnerships, who expressed keen interest in implementation.

HACKATHON EXPERIENCE

Vancouver AI Data Storytelling Hackathon | Python, HTML, Embeddings, RAG, Gemini API May 2025 – Oct 2025
BC + AI Ecosystem Association; Rival Technologies *Vancouver, BC*
• Awarded the \$1,000 "Hall of Fame" prize for sustained excellence, placing second overall by delivering top-ranked projects across all four rounds of the multi-month competition hosted by BC + AI Ecosystem.

Also competed at Scrapyard Vancouver (Itémon, 2nd/30+ teams), Hack For Youth (TimeCraft, 1st place), yvrHacks (yeetup, Hon. Mention), Hack the North 2024 (DaVinci Solve), nwHacks 2025 (Genimo), JourneyHacks 2026 (Latent Loop), and nwHacks 2026 (Pulsera).

EDUCATION

Bachelor of Applied Science (BASc) in Engineering Physics Sep 2026 – May 2030 (Expected)
University of British Columbia *Vancouver, BC*

