

Pranav Verma

Last Updated: September 12, 2026

+91-9953769729 • pranav@verma.net.in
github.com/PranavVerma-droid • pranavv.co.in

About Me

I am a student driven by curiosity and fascination for technology and its possibilities. I love exploring how systems work from the inside out, building things from the ground up, and trying to learn absolutely everything about engineering and science. And when I say everything, I mean it. No stone unturned. When I run into a challenge, I think, break it down, experiment, and keep iterating until I find a solution. I also like entrepreneurship, especially the idea of turning ideas into solutions that solve problems. I am constantly experimenting, failing, persevering, failing again, until something works and learning from it.

Education / Scores

- **The University of Hong Kong** Sep 2026 – Present
Bachelor of Engineering in Computing and Data Science
- **Lotus Valley International School** Apr 2011 – Apr 2026
Senior Secondary Education, Noida
 - **Class X (AISSE):** 85.0% Aggregate (All 5)
 - **Class XII (AISSCE):** 90.2% Aggregate (All 5)

Professional Experience

- **CortexBrain (Open Source)** Jun 2025 – Jul 2025
Code Maintainer Intern (Remote)
 - Designed and implemented CortexFlow CLI v0.1 from scratch using Rust
 - Replaced legacy "install" and "delete" shell scripts with modular CLI subcommands
 - Contributed to core project issues (#94, #77) ensuring smoother deployment pipelines
 - Collaborated with international developers using GitHub, Docker, and Kubernetes
 - Demonstrated initiative, analytical thinking, and strong Rust programming proficiency
- **Stanley Black & Decker** Apr 2025 – May 2025
Tulip Application Development Intern (Remote)
 - Developed a customized OEE (Overall Equipment Effectiveness) reporting tool using the Tulip low-code platform for Moto line manufacturing.
 - Integrated real-time data collection and visualization, enhancing production monitoring efficiency.
 - Created detailed training materials including video tutorials and a written manual for seamless handover to industrial engineering teams.
- **Rochester Institute of Technology** Jan 2025 – Feb 2025
AI Data Analyst Intern (Remote)
 - Conducted comprehensive EDA on large datasets for data-driven decision making
 - Improved user engagement strategies by 48% through analytical insights

Technical Skills

- **Programming:** Python, C, C++, JavaScript, Rust, Assembly (x86), Java, Bash
- **Tools:** Linux, Docker, Arduino, Tor, Nginx, Apache, Ollama, Unity, Tailscale
- **Design:** Blender, Vue.js, Firebase, Pocketbase, Vue, TailWindCSS

Extraterrestrial Projects

- **Tidal Programming Language** May – Dec 2024
[GitHub](#) • [Reddit Post](#) • [Blog](#)

- Designed and implemented a high-performance programming language using Rust, achieving 80+ GitHub stars and significant community adoption
- Built comprehensive compiler architecture with advanced parser, lexer, and code generation capabilities
- Established robust library ecosystem enabling seamless package management and distribution
- **InfinityX OS V1** Jun – Dec 2023
[GitHub](#)
 - Developed complete operating system from scratch using Assembly, C, and Python foundations
 - Implemented advanced memory management using Programmable Interrupt Controller (PIC) architecture
- **Espada** Jan – Feb 2025
[HuggingFace](#) • [Blog](#)
 - Curated and published high-quality technical dataset on HuggingFace platform for AI assistant training
 - Compiled comprehensive knowledge base covering Programming, Computer Science, and Software Engineering domains
 - Designed dataset architecture to optimize training efficiency for technical AI assistants and chatbots
- **Stacy: AI Healthcare Assistant** Jan – Mar 2025
[GitHub](#)
 - Built intelligent mental health platform with advanced sentiment analysis and personalized wellness recommendations
 - Secured 3rd place in prestigious CodeMaster Solo 2025 Competition among 200+ teams
 - Integrated Ollama AI framework with intuitive Python (Tkinter) interface for enhanced user experience

Achievements & Awards

- **Best Reaction Time Award - F1 in Schools 2022**
 - Achieved the fastest reaction time of 0.2 seconds, outperforming 100+ teams.
 - Competed in a high-speed reaction-based challenge as part of an international STEM competition.

Sports Achievements

- **Basketball Achievements:** NBA India Player of the Month Award recipient in Basketball
 - Recognized for exceptional performance and team leadership skills.
 - Led team efforts in local and national tournaments.
 - Consistently contributed to high team morale and strategic plays.

Workshops & Certifications

- **Classify Images with TensorFlow on Google Cloud** – Google Cloud Jul 2025
- **Manage Kubernetes in Google Cloud** – Google Cloud Jun 2025
- **Artificial Intelligence Fundamentals** – IBM Jun 2025
- **Quantum Enigmas** – IBM Jun 2025
- **Prompt Design in Vertex AI** – Google Cloud Jun 2025
- **Elements of AI: Introduction to AI** – University of Helsinki Feb 2025
- **Elements of AI: Building AI** – University of Helsinki May 2025
- **Generative AI Workshop** – IIT Delhi Oct 2024
- **Quantum Computing Basics** – IIT Delhi Mar 2025
- **AI Fundamentals Course** – Great Learning Nov 2024
- **Technical Certifications:**
 - **HackerRank:** Javascript, Python, CSS, Node.js, and Problem Solving
 - **TestDome:** Linux (Debian)

Publications

- **"Artificial General Intelligence (AGI): Bridging the Gap Between AI and Humans"** May 2025
International Journal of Scientific Development and Research (IJS DR)
 - Analyzed AI evolution from specific tasks to theoretical AGI foundations
 - Explored technical challenges, ethical considerations, and responsible development approaches
 - Presented a comprehensive framework combining deep learning, world models, and reasoning
 - Examined societal impacts, policy implications, and innovation potential of AGI technologies

Community Service

- **Roundglass Foundation** Oct 2024 – Jan 2025
English Teaching Assistant
 - Led English language instruction for students in rural areas
 - Focused on confidence building and educational advancement

Soft Skills

- **Photography:** Proficient in DSLR photography, composition, and lighting techniques
- **Server Management:** Hosting a server 24/7; Provide free SaaS services to anyone in need.
- **Basketball:** Demonstrated discipline and teamwork, recognized by NBA India as Player of the Month
- **Leadership:** Led multiple teams in competitions and projects, demonstrating strong abilities
- **Networking:** Developed professional relationships through internships and community engagement
- **Mentoring:** Guided younger students in coding and robotics, fostering peer learning
- **Teamwork:** Collaborated effectively in diverse team settings, focusing on common goals