Parth Kaushik

(765) 237-8807 | parth6a1@gmail.com | github.com/Parth-Kdot | parthkaushik.com

Education

Purdue University West Lafayette, IN

Bachelor of Science in Computer Science

- **Relevant Coursework:** Object-Oriented Programming (Java), Multivariate Calculus, Linear Algebra, Ethics of Data Science

Experience

P&L Systems Oakville, ON

Software Engineering Intern *May 2026 – Aug. 2026*

- Built a full-stack logistics platform in Angular, Python, and MySQL that replaced a shared Excel workflow, giving **30** executives and managers live access to every shipment.
- Designed the relational schema and REST API behind **3,000+** client and supplier records, with search and status classification (new, active, archived) across containers and accounts.
- Eliminated **5 hours/week** of manual reconciliation; adopted company-wide as the system of record within **3 weeks**.

Logistics Coordinator Intern *June 2025 – Aug. 2025*

- Wrote a VBA tool that turned three months of shipping logs into a pick-frequency heat map; re-slotting the busiest SKUs saved each worker **2 km** of walking per day and cut processing time **10%**.
- Ran logistics for **$700K+** in inventory, directing a three-person warehouse team; earned a software engineering return offer.

UsaPacas Remote

Software Developer Intern *June 2024 – Aug. 2024*

- Built the frontend of a production order and scheduling app in HTML and Tailwind CSS; contributed Python backend endpoints.

Projects

Text-to-Motion Generation, ML@Purdue | *PyTorch, VQ-VAE, Transformers* Sept. 2026 – Present

- Building a generative model that turns natural-language prompts into 3D human motion, using a **VQ-VAE** to compress motion sequences into a discrete codebook of motion tokens.
- Training a transformer to predict motion tokens conditioned on CLIP text embeddings, evaluated on HumanML3D with FID and R-precision.

Club CRM, Purdue Launchpad | *React, Supabase, PostgreSQL, Prisma* Sept. 2026 – Present

- Building a CRM for Purdue student organizations to track sponsor and member leads through pipeline stages, with automated follow-up reminders when a lead goes cold.
- Integrated an LLM that drafts outreach emails from each lead's history and notes; isolated each club's data with Supabase row-level security.

Tutor Matching Platform | *React, TypeScript, Python* Apr. 2025 – Present

- Built a full-stack platform serving **120+ tutors** and **2,000+ tutees**, automating signup, eligibility checks, session matching, and volunteer-hour crediting that executives had run by hand across forms and spreadsheets.

Project Apollo | *TypeScript* Apr. 2025 – Present

- Built and deployed the frontend for a music education nonprofit's platform, reaching **65,000+** users.

Technical Leadership

VEX Robotics, White Oaks Secondary School Oakville, ON

Team Captain and Lead Programmer *Sept. 2024 – June 2026*

- Implemented **Monte Carlo localization** from scratch in C++, combining odometry-driven particle propagation, sensor-likelihood weighting, and resampling to correct drift in real time; fed the filtered pose into LemLib path-following on PROS for fully autonomous scoring.
- Led a team of 12 to a **9-1** division record at the 2025 VEX V5 World Championships, finishing **top 30 globally**.

Electrathon, White Oaks Secondary School Oakville, ON

Co-Founder and Co-President *Sept. 2024 – June 2026*

- Programmed Raspberry Pi firmware in C++ for motor sync, live telemetry, a driver display, and thermal current limiting.
- Led 15-20 students in building an electric vehicle; raised **$10,000+** from 12 sponsors and won the **Dennis Weishar Innovative Engineering Award** (2025).

Skills & Interests

Languages: Python, C++, Java, TypeScript, JavaScript, SQL, Bash, HTML/CSS
Frameworks: React, Next.js, Angular, Node.js, Flask, Django, Prisma
ML & Data: PyTorch, Hugging Face Transformers, NumPy, pandas, OpenAI and Anthropic APIs
Infrastructure: PostgreSQL, MySQL, SQL Server, Supabase, Git, GitHub Actions, Docker, Vercel, pytest
Interests: Competitive boxing (1,400+ hours), cross country (18:12 5k), Bhangra