

AAYUSH PANDE

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EDUCATION

Olentangy Liberty High School | Powell, OH | 2028

- *Relevant Coursework:* AP Calculus AB, AP Physics 1, AP Pre-Calculus, AP Computer Science Principles

Columbus State Community College | Columbus, OH | 2x Dean's List

- *Relevant Coursework:* Introduction to HTML, Introduction to Programming Logic, Database Fundamentals, Data Systems Program, Data Analysis I

WORK EXPERIENCE

Vela | Co-Founder & CTO

April 2026 - Present

- Co-building an AI co-pilot for virtual power plant operators that ingests fleet data, market prices, and weather forecasts to generate day-ahead dispatch strategies
- Accepted into Z Fellows accelerator out of thousands of applicants
- Collaborating with an incoming Berkeley MET freshman to develop the product

Students for Patient Advocacy Nationwide | Data & ML Engineer

August 2025 - Present

- Built a Supabase/PostgreSQL database powering 40+ members across 16 states; secured data access, enabling influence over 50+ healthcare bills and 1,500+ legislators
- Developing ML pipeline (Python, scikit-learn) to score legislative bills by policy impact, supporting \$1,400+ in grants and 250,000+ social media reach
- Collaborated with Stanford Deliberative Democracy Lab on legislative strategy integration

PROJECTS

Espada

April 2026

- Built a real-time tariff tracking tool that alerts small businesses and importers about tariff changes and identifies alternative suppliers to reduce costs
- Architected a 5-agent AI system to automate tariff monitoring, supplier analysis, and customer alerts
- Partnered with a local granite business as a design partner and am actively onboarding additional businesses

Pursuit Wrestling Tracker

April 2026

- Full-stack platform serving Pursuit Wrestling Club (50+ active users); deployed to production
- Built React/Vite frontend (Vercel), Supabase backend (PostgreSQL, RLS), FastAPI inference layer (Fly.io)
- ML models for weight-cut prediction; real-time sync and performance visualization (Recharts)

Eagle Scout Service Project — Little Free Library

July 2025 - August 2025

- Designed and built a custom two-story cedar library for Highbanks Metro Park
- Managed 120+ volunteer hours, \$700 budget, volunteer coordination, and installation
- Registered with the official Little Free Library network; actively serving the community

TECHNICAL SKILLS

- **Programming & System Design:** Python, SQL, Pandas, Scikit-learn, Supabase, PostgreSQL, FastAPI, Flask, REST APIs, LLM API (Claude, Groq) integration
- **Frontend Development:** React, Vite, Tailwind CSS, HTML5, CSS3, JavaScript, Recharts
- **Backend & Deployment:** FastAPI, Supabase, Vercel, Fly.io, Real-time data synchronization, In-memory caching, Cloud infrastructure, Agentic systems
- **Data Analysis & Machine Learning:** Predictive modeling, data visualization, multi-agent systems
- **Tools & Version Control:** Git/GitHub, Jupyter Notebook, API testing, command line, environment configuration

- **Languages:** *English (Bilingual), Marathi (Native), German (Elementary)*