Aryan Parmar

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Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C, C#, SQL
Frameworks & Libraries: React.js, Node.js, Express.js, FastAPI, Tailwind CSS, Passport.js
Databases: PostgreSQL, Prisma, SQLAlchemy
Tools & Testing: Git, GitHub, Postman, Jest, pytest, Docker

Education

University of Windsor   **Sep. 2024 - Sep. 2028**
Bachelor of Science, Computer Science, Specialization in Software Engineering   *Windsor, ON*
- Obtained an average of 93.3%
- Awarded with Dean's Honour Roll Award and Dean's Scholarship for academic performance

Relevant Experience

Open Source Contributor | *C#, WPF, Win32*   **Mar 2026**
FluentFlyout | PR, GitHub
- Contributed a vertical taskbar feature for the Taskbar Widget, enabling the widget to render correctly on non-horizontal taskbars across a Windows app with 130K+ downloads and 1.5K+ GitHub stars.
- Auto-detects taskbar orientation via Win32 API and applies 90° LayoutTransform rotation with corrected window region clipping using GDI region APIs.

Software Developer | *React.js, TypeScript, Next.js, Docker*   **Oct 2025 - Present**
Computer Science Society at University of Windsor, Frontend Engineer
- Built and deployed a React + TypeScript frontend for an AI chatbot used by 2,000 students, integrating REST APIs into the society website.
- Coordinated development using GitHub pull requests and code reviews across a shared codebase with 30+ contributors, resolving merge conflicts and enforcing consistent code structure.

ICPC Competitor | *Python*   **Oct 2024**
University of Windsor, Team Lead
- Led a 3-person team to 3rd place out of 15 teams at ICPC North America Regionals Qualifier.
- Solved problems spanning graph traversal, dynamic programming, and combinatorics under contest time constraints.

Projects

AI Model Router | *Python (FastAPI, Pydantic, Uvicorn), React, Vite, TailwindCSS*
Full Stack Developer | LIVE, GitHub
- Designed and implemented a full-stack LLM routing service that scores prompt complexity (0–100) and dynamically selects between three model tiers (cost vs quality tradeoff).
- Built REST APIs in FastAPI with strict schema validation and environment-based configuration; packaged the system as a cross-platform desktop app (Windows .exe, macOS .dmg) using Electron.
- Built a React + Vite dashboard to visualize routing outcomes, achieving Lighthouse scores of 89 Performance, 84 Accessibility, and 100 Best Practices.
- Reviewed pull requests and coordinated API contracts between frontend and backend services in a 3-person team.
- Implemented multi-stage response validation with model self-evaluation and fail-closed JSON parsing to prevent malformed or unsafe outputs.
- Secured endpoints with per-IP rate limiting (10–60 req/min), request timeouts, and exponential backoff retries to prevent abuse and cascading failures.

Broccolli URL Shortener | *React, Vite, TailwindCSS, Express, PostgreSQL*
Full Stack Developer | GitHub
- Built a full-stack URL shortener with PostgreSQL persistence and analytics tracking for click counts and redirect behavior.
- Designed deterministic short-code generation using SHA-256 hashing and Base62 encoding to produce stable 7-character URLs.
- Built a redirect service that resolves short codes, increments analytics counters, and performs HTTP redirects under latency constraints.
- Implemented request timeouts and retry logic with exponential backoff for failed API calls.