

# Anthony Pham

905-758-2708 | [phamanthony47@gmail.com](mailto:phamanthony47@gmail.com) | [/in/anthpham](https://in/anthpham) | [github.com/anthskti](https://github.com/anthskti) | [anthonypham.ca](https://anthonypham.ca)

## Education

### York University

Honours B.Sc. in Computer Science

Relevant Coursework: Software Engineering, Software Testing, Data Structures, Algorithms, Computer Networks.

June 2026

Toronto, Ontario

## Professional Experience

### UofTHacks 14 | University Hackathon

Executive Software Engineer

Mar 2026 – Present

Toronto, Ontario

- Refactored the judging scheduling workflow in the **FastAPI portal** by replacing fragile web scraping with a **handshake-token integration**, reliably syncing sponsor tracks and project metadata for a 750-participant hackathon.
- Extended the judging scheduler with an **after-deadline append workflow**, extracting reusable components from the existing A/B scheduling algorithm to add late projects without rebuilding the existing schedule.
- Contributed to the hackathon signup experience using **Astro**, **TypeScript**, and **Three.js**, collaborating with designers and independently implementing interactive **scene transitions** and **sponsorship UI**.

### The Perimenopause Lab

Software Engineer Intern

July 2026 – Sept 2026

Toronto, Ontario

- Designed and deployed a **containerized recommendation microservice** using Express/TypeScript, Azure PostgreSQL, OpenAI embeddings, cosine similarity, and LLM reranking, supporting growth from 50 initial professionals to **1,000+**.
- Integrated the service into Luna's LiveKit conversational agent via **RPC**, transforming open-ended user requests into structured queries and returning contextual matches with AI-generated rationale.
- Automated professional information collection from **30 minutes to ~1 minute per profile** by building an Apify/OpenAI/regex pipeline with confidence-scored inference, admin verification, and REST integration.
- Built **production infrastructure** on Azure, Docker, GitHub Actions CI/CD, staging environments, Resend webhooks, and automated testing; caught jurisdiction-filtering bugs before production.

## Technical Experience

### Clearup | TypeScript, Next.js, Express, PostgreSQL, Sequelize, Betterauth, AWS EC2, Caddy | Try It

Nov 2025 – Present

- Built a full-stack skincare platform (routines, product discovery, seller price comparison) on a **43-endpoint REST API across 10 data models** with layered MVC + Service + Repository architecture.
- Reduced per-request database payload **10x for a 400-product catalog** by implementing API pagination, route-specific caching (1-6hr TTL), and Next.js image optimization.
- Prevented critical data loss across **10+ production deployments** by enforcing a three-stage pipeline (Docker dev → staging → production), catching a schema migration bug before release.

### Voicely | Go, Gin, Python, FastAPI, Next.js, PostgreSQL, Docker, AWS S3 | Play It

Aug 2026 – Sept 2026

- Solo-built a **distributed voice-over platform** with a Go API, Python ML grading service, and Next.js frontend, built during **Ignition Hacks V7 in 24 hours** then extending it with four additional scenes and production deployment.
- Engineered an **audio-grading pipeline** using PyTorch/Resemblyzer speaker embeddings, and custom scoring heuristics for timbre similarity, cadence, and vocal intensity, returning per-line and overall performance grades through the Go API.
- Containerized and deployed the services across Render and Vercel, integrating Supabase for authentication/data and AWS S3 for media storage while **separating grading workloads from application request handling**.

### Orca-CTL | Go, Gin, TypeScript, Next.js, OpenAI Vision, WebSockets, MJPEG | Watch It

Sept 2026

- Architected and built the software stack for a **remote server recovery system (IP-KVM)**, developing a Go middle tier and Next.js dashboard to bridge a QNX-based Raspberry Pi KVM with remote server control.
- Implemented **low-overhead remote access** using HTTP/MJPEG video streaming, HTTP-based HID commands, and WebSockets for live status/log updates, routing all hardware communication through a centralized Go backend.
- Built an **AI recovery agent** that screenshots the server, analyzes it with the OpenAI Responses API, and translates decisions into KVM keyboard commands, **demoed end to end to QNX judges at Hack the North**.

## Technical Skills

**Languages:** Python, TypeScript, JavaScript, Go, Java, SQL, C, C#, C++, HTML5, CSS3.

**Frameworks/Libraries:** React, Next.js, Node.js, Express.js, Flask, FastAPI, Gin, Spring Boot, JUnit, Tailwind CSS.

**Tools/Platforms:** Git, Docker, Postman, MySQL, PostgreSQL, AWS, Google Cloud, Azure, OpenAI API, Claude Code, Gemini.