

Anthony Pham

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Education

York University

June 2026

Honours B.Sc. in Computer Science

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

Professional Experience

UofTHacks 14

Mar 2026 – Present

Executive Software Engineer

Toronto, Ontario

- Learned the **data flow architecture** and **platform integration points** for a 15-engineer shared multi-year hackathon backend using Python.
- Designed a **Handshake token** integration between Devpost and the hacker portal to automate project submission syncing for 800 participants, eliminating manual admin workflows that commonly bottleneck hackathon operations.
- Collaborating with UI/UX Designers to develop the main page using Three.js and Astro.

The Perimenopause Lab

July 2026 – Sept 2026

Software Engineer

Toronto, Ontario

- Architected a standalone **Express.js** microservice with its own **PostgreSQL** schema, decoupled from the main Next.js monorepo and access via an authenticated API, which streamlined integration for the parent application.
- Built a three-stage recommendation pipeline: SQL eligibility filtering, **Azure OpenAI** semantic vector ranking, and LLM-based re-ranking that improved the relevance of suggestions presented to users.
- Built an admin platform for professional onboarding that supports batch CSV/JSON import, **Apify**-based web scraping, AI enrichment, and automated email outreach with inbound reply handling via **Resend** webhooks, accelerating the onboarding workflow and lowering manual effort.
- Deployed the service to **Azure Container Apps** with a managed **Azure PostgreSQL** database, containerizing the microservice for independent scaling and deployment from the main Luna application.

Technical Experience

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

Nov 2025 – Present

- Engineered a full-stack skincare platform ("PCPartPicker for skincare") where users build routines, discover products, and compare seller offers to make cost-aware purchasing decisions.
- 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.
- Engineered a full account lifecycle for **150+ unique visitors** by integrating **Better Auth** with Google OAuth and building a bounce-tracking webhook pipeline via **AWS SES → SNS → backend** to automatically suppress undeliverable accounts.

Voicely | [Go](#), [Python](#), [Next.js](#), [PostgreSQL](#), [Docker](#), [AWS S3](#) | [Play It](#)

Aug 2026 – Present

- Developed a 3-service microservices architecture (**Go** API, **Python** ML grading service, Next.js frontend) at **Ignition Hacks V7** in 24 hours, expanded with additional scenes and continued development since then.
- Built a voice-grading pipeline using **PyTorch** and **Resemblyzer** to extract voice embeddings and score user recordings against reference audio in real time, returning accuracy metrics via JSON.
- Using a **Docker Container**, deployed on both **Render** and Vercel with **AWS S3** media storage, implementing automated bucket lifecycle rules to purge temporary exports for control storage costs.

Reverie | [Typescript](#), [Next.js](#), [Python](#), [FastAPI](#), [PostgreSQL](#), [Auth0](#), [Google AI SDK](#) | [Video Demo](#)

July 2026 – July 2026

- Engineered a 6-agent AI pipeline using **Google's AI SDK**, coordinating designer, stylist, concurrent instruction/impact, and scoring agents to transform a single clothing photo into upcycling concepts, guides, and environmental impact metrics.
- Built a marketplace for upcycled clothing, tools, and materials with **Unifold** sandbox payments, where agents contextually recommend marketplace tools based on each user's project.
- Architected a multi-subsystem REST API using **FastAPI**, **SQLAlchemy**, and **PostgreSQL** with secure **Auth0** validation, shipped as a full-stack prototype in 36 hours for **Hack the Six 2026**.

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, uv, Spring Boot, Axios, JUnit, Tailwind CSS.

Tools/Platforms: Git, Docker, Postman, MySQL, PostgreSQL, Gemini, LLM, Figma, AWS, Google Cloud, Azure.