

Anthony Pham

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Education

York University

Honours B.Sc. in Computer Science

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

June 2026

3.4 GPA

Professional Experience

UofTHacks 14

Executive Software Engineer

Mar 2026 – Present

Toronto, Ontario

- Navigated a 15-engineer shared multi-year hackathon backend, independently mapping data flow architecture and platform integration points to reach implementation ready understanding and identify the technical approach for a Devpost-to-portal sync system.
- Designed a Handshake token integration between Devpost and the hacker portal to automate project submission syncing for 800 participants, eliminating error-prone manual admin workflows that commonly bottleneck hackathon operations.

Northcrest Developments (YZD) via C4 Capstone

Technical Project Lead

Jan 2026 – April 2026

North York, ON

- Won the **Innovation Award** among **15 teams** and a \$500 prize by leading a 7-person cross-disciplinary team through **4 Agile Scrum sprints** to design weather-resistant pedestrian infrastructure for Northcrest Hangar District redevelopment.
- Engineered an **Unreal Engine 5** and **C#** VR simulation of the Taxiway pedestrian strip with dynamic rain and snow systems to physically demonstrate glass walkway protection from wind tunnel exposure, becoming the most attended demo at the capstone showcase with clients and attendees lining up to experience it.

Technical Experience

Clearup | TypeScript, Next.js, Express, PostgreSQL, Sequelize | Live Site

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.
- Architected a 43-endpoint REST API across 10 data models using a layered **MVC + Service + Repository** pattern in TypeScript/Express with Sequelize/**PostgreSQL**, designing for security and data-access separation from the ground up.
- Reduced per-request database payload by **10x** and improved platform responsiveness for a **400-product catalog** by implementing API pagination (200 → 20 products per request), route-specific caching (1–6 hour TTL), backend compression, Next.js image optimization, and lazy-loaded product galleries.
- Prevented critical data loss across **10+ production deployments** by enforcing a three-stage pipeline (**Docker** → Render staging → **AWS EC2**), intercepting a schema migration that silently dropped product fields and multiple routine management regressions before reaching production.
- Built a companion scraping pipeline using **Playwright and BeautifulSoup** to extract structured product attributes from **Sephora and YesStyle**, populating a catalog of **300 scraped products** with 200 live in production — architected to extend into multi-merchant price comparison across the same SKUs.

Code Review Agent | Python, Google ADK, LLMs, Pydantic, uv | Github

June 2026 – July 2026

- Engineered a 4-agent concurrent code review pipeline using **Python and Google ADK**, orchestrating parallel Security and Performance **LLM** agents through a shared strictly-typed **Pydantic** state model.
- Reduced hallucinations and redundant context across agents by implementing a dedicated Context Agent whose data classification output dynamically targets each downstream agent toward specific vulnerability and performance patterns relevant to the analyzed codebase.

Clementine | Next.js, Python, FastAPI, LLMs, Pandas | Hack Days 2026 | Video Demo

Mar 2026 – Apr 2026

- Engineered a financial portfolio analysis platform using **Python and FastAPI**, aggregating and processing **real investment data** from **Questrade and Yahoo Finance APIs** to surface personalized insights and risk assessments.
- Designed an asynchronous FastAPI data processing pipeline to get, normalize, and aggregate multi-source financial data using Pandas, ensuring **data integrity** across third-party API responses.
- Integrated an **LLM analysis engine** to assess portfolio health, generate a personalized "gardener personality" type based on risk tolerance, and provide actionable financial insights.

Technical Skills

Languages: Python, Java, Javascript, Typescript, Go, SQL, HTML5, CSS3, C, C++, C#.

Frameworks/Libraries: React, Next.js, Vue.js, Node.js, Express.js, Flask, FastAPI, uv, Spring Boot, Axios, JUnit, Tailwind CSS.

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