Hung Nguyen

613-276-5658 | h7ng.ng@gmail.com | linkedin.com/in/hunggg | github.com/hungnguyen1607

Education

Concordia University — Expected May 2028
Bachelor of Engineering in Software Engineering (Co-op) — *Montreal, QC*

- **Relevant Coursework:** Object-Oriented Programming (OOP), Systems Programming

Experience

Software Engineer Intern — Sept. 2026 – Present
Rakuna — *Remote*

- Built a React + Rails admin tool adopted daily by **10** ops staff for 400+ monthly events, cutting review time **75%**
- Shipped 3 scheduled Rails Slack-webhook reports tracking dropped/bounced/missing emails, saving **25 hrs/week**
- Cut irrelevant search results **20%** by mapping 192 majors to IDs via SQL JOINs, across 15K+ monthly searches
- Wrote 52 RSpec regression tests over 12 Rails endpoints, cutting production bugs **42%** and manual QA **93%**

Software Engineer Intern — May 2026 – Aug. 2026
Rakuna — *Hanoi, Vietnam*

- Migrated Workday REST → SOAP for 100+ enterprise clients, consolidating into 1 request, cutting export time **95%**
- Built an AWS pipeline (Rails → SQS → ECS → S3) zipping 300 resumes/batch, speeding downloads **10 min → 45s**
- Automated event mailers with Sidekiq + SendGrid (3.5K+ emails/month), removing **5** manual setup steps per event
- Consolidated duplicated frontend code into 5 shared React components across 10+ pages, removing **∼500** lines

Software Engineer Intern — Mar. 2026 – May 2026
Innova Museum — *Vancouver, BC*

- Built self-serve org onboarding in TypeScript + Stripe Connect, cutting setup time **1 day → 15 min** for 1,600 orgs
- Designed a ticket-sales API returning per-event revenue in a single query, reducing latency **1.97s → 182ms**
- Engineered rate limiting on auth, OTP, and analytics endpoints, blocking **∼10K** malicious bot requests/day

Projects

Agentic Apartment Search SaaS — Website

- Saved **$11,000/year** in LLM costs by designing a cache-stable AI agent for outreach emails (**80%** cache hit rate)
- Engineered a multi-agent pipeline raising verified search-filter coverage **45% → 87%**; **500+** rentals since launch
- Switched calls between Node and Java services from REST to gRPC, cutting bandwidth **42%** with one shared schema
- Built a multi-tenant MCP server (32 agent tools, 5K calls/day) in 1 process, cutting memory **400MB → 134MB**

Android Automation Platform — Demo

- Built and sold a full-stack Android automation SaaS running 24/7, reaching **120** paying users and **$10,000** in revenue
- Scaled Android containers 3 → 6 servers via Redis-backed Celery, speeding up event-to-action latency **11s → 3.5s**
- Migrated AWS VMs to Waydroid (Android) containers on Hetzner, lowering cost per user **72%** (**$9 → $2.50/mo**)

AI Self Study Tool — Website

- Built an AI study tool used by **42** students that indexes Moodle course files and cites slides via agentic RAG
- Reduced RAG latency **87%** (**57 → 7.6ms** p95) by caching query embeddings over pgvector, at **∼$0.60**/1K queries
- Built a GraphQL BFF (Strawberry + FastAPI) merging 6 REST calls into 1, cutting DB latency **98%**

Technical Skills

Languages: Ruby, Python, SQL, TypeScript, JavaScript, C++, Java, HTML/CSS, GraphQL
Frameworks: React, Ruby on Rails, FastAPI, Node.js, Celery, Spring Boot, Sidekiq, RSpec
Tools: AWS, PostgreSQL, Redis, Elasticsearch, Kafka, gRPC, pgvector, Stripe, CI/CD, Git, Docker, Linux