

Angel Shinh

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EXPERIENCE

Software Developer Intern

Jan 2026 - Apr 2026

Royal Bank of Canada (RBC)

Toronto, ON

- Designed and shipped a cryptographic service following JOSE standards for RBC's Open Banking platform, securing client data transmission across distributed systems via asymmetric key encryption and token signing; integrated with upstream and downstream services through versioned REST API contracts.
- Cut application startup time by 80% by replacing sequential bean initialization with a multithreaded parallel loader; service is stateless and horizontally scalable behind a load balancer in production.
- Containerized services with Docker and deployed to Red Hat OpenShift via Kubernetes manifests; contributed Spring Boot pipeline stages to the team's Jenkins CI/CD workflow and resolved performance regressions through Dynatrace trace analysis.
- Independently designed and shipped DDP Hunt, a real-time internal scavenger hunt platform in Next.js and MongoDB featuring QR-code item claiming, concurrent leaderboard tracking, and reward redemption — used by 30+ participants across RBC Digital and Wealth Management Technologies and demoed to senior leadership as a candidate employee-onboarding tool.

Technical Systems Analyst Intern

Sep 2025 - Dec 2025

Royal Bank of Canada (RBC)

Toronto, ON

- Automated recurring IAM data workflows for the Identity & Access Management Analytics & Governance team using Python, eliminating manual steps in access certification and orphan account detection pipelines and cutting processing time by ~40%.
- Engineered and maintained SQL pipelines ingesting millions of identity records from 5+ enterprise source systems (Active Directory, SailPoint, ServiceNow) into a centralized analytics store; tuned slow queries via index optimization and execution-plan analysis to meet Global Cyber Security SLA targets.
- Built Tableau dashboards consolidating IAM metrics across 3+ data sources, giving leadership a single pane of glass for access governance KPIs and reducing manual reporting effort ahead of quarterly audits.

Machine Learning Engineer & Data Science Intern

Jan 2025 - Apr 2025

Meta Trading Club

Remote

- Built a conversational assistant in React integrating the OpenAI API, designing prompt templates and structured-output parsing to deliver real-time, personalized responses through a responsive chat interface used by 10+ club members.
- Engineered Python data pipelines to extract, clean, and transform user-generated text data, normalizing inconsistent inputs into a unified format for downstream model consumption.
- Implemented an NLP layer using prompt-engineered LLM calls to infer user personality traits from free-text input, mapping responses to structured trait profiles to drive personalized assistant behavior.

PROJECTS

DevFlow | *Next.js, TypeScript, Supabase, Gemini AI, GitHub OAuth, PostgreSQL*

- Built an AI-powered PR code review dashboard that integrates the GitHub REST API with Google Gemini to generate structured analysis — covering bug detection, improvement suggestions, and severity ratings — across any public repository.
- Engineered a Supabase PostgreSQL backend with Row Level Security policies ensuring strict per-user data isolation; reduced repeated AI generation costs by 60%+ by caching reviews and serving saved results on revisit.
- Implemented full GitHub OAuth flow via Supabase Auth with secure session handling across Next.js App Router server and client components; deployed on Vercel with sub-2s cold start across 3 tested regions.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C, C++, SQL, Bash

Backend & APIs: Spring Boot, Spring WebFlux, Node.js, Next.js, RESTful APIs, JOSE/JWT, OAuth 2.0

AI & ML: OpenAI API, Google Gemini, LLM Prompt Engineering, NLP, Sentiment Analysis, RAG

Databases: PostgreSQL, MySQL, MongoDB, Neo4j, Redis, Supabase

Infrastructure & Tooling: Docker, Kubernetes, Red Hat OpenShift, AWS, Jenkins, CI/CD, Dynatrace, Git/GitHub

Frontend: React, Tailwind CSS, Three.js, Framer Motion

EDUCATION

Seneca Polytechnic

North York, ON

Computer Programming and Analysis | GPA: 4.0 / 4.0

Jan 2024 - Dec 2026

Leadership: Director of Technology, CUSEC (Canadian University Software Engineering Conference); VP Technology, Google Developer Group on Campus @ Seneca