

# Ethan Um

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Full-stack developer building Rails and Go systems in production; recently shipped an iOS app to the App Store and a Rails analytics platform processing 100K+ matches.

## Project Experience

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**League Wrapped** | Rails, Ruby, PostgreSQL, Redis, Sidekiq, Docker Feb 2026 - Present | [Live Site](#) | [GitHub](#)

- Built a full-stack League of Legends analytics platform processing 100,000+ matches across 300+ players using Riot API data.
- Developed a Sidekiq + Redis ingestion pipeline that parallelized thousands of API requests while respecting third-party rate limits.
- Containerized and self-hosted the Rails stack with Docker on DigitalOcean, managing deployment, infrastructure, and production monitoring.

**Keeprr** | iOS, Swift, SwiftUI Jan 2025 - Present | [App Store Page](#)

- Shipped a privacy-first iOS photo journaling app to the App Store as sole developer, owning development from SwiftUI architecture through TestFlight and App Store release.
- Built an offline-first Core Data architecture with no backend or third-party SDKs, ensuring full on-device data persistence and privacy-first design.
- Engineered a dual-camera AVFoundation capture system that synchronized front and back camera sessions into a one-tap journaling workflow.

**Smart Hunt** | Next.js, JavaScript, Stripe API, Supabase, PostgreSQL July 2025 - Sept 2025 | [Live Site](#)

- Built a full-stack job-tracking SaaS with Stripe-powered token payments and secure Postgres balance updates via server-side webhooks.
- Generated AI-powered resume rewrites and cover letters using structured OpenAI API outputs with schema validation to prevent malformed responses.
- Protected AI endpoints with per-user token-bucket rate limiting and server-side validation to control API abuse and stabilize costs.

## Work Experience

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**Treasury Board Secretariat** | Web Developer – Full Stack Jan 2023 – Apr 2023

*Toronto, Ontario*

- Reduced domain approval turnaround time by 25% by building real-time Vue validation that prevented submission errors before review.
- Designed 6 Figma prototypes across 12 sprints, securing stakeholder approval before development and reducing revision cycles.
- Cut internal report retrieval time by ~30% by developing Go API routes backed by targeted MariaDB queries.

**Aim Vector** | Junior Software Developer May 2022 – Aug 2022

*Toronto, Ontario*

- Improved page load performance by 20% across 10+ production React apps by eliminating unnecessary re-renders through state optimization and memoization.
- Collaborated directly with 5+ clients to translate business requirements into scoped technical deliverables and reduce development churn.
- Built a reusable React component library of 13 shared components, standardizing UI development across 4 client applications.

## Skills

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**Languages:** Ruby, Go, JavaScript/TypeScript, Python, Swift, SQL

**Frameworks:** Ruby on Rails, React, Next.js, Vue, Node.js, SwiftUI

**Databases & Infrastructure:** PostgreSQL, MariaDB, Redis, Supabase, Docker

**Tools & Methods:** Git, Azure, Stripe API, Auth0, Figma

**Systems & Concepts:** REST APIs, Rate Limiting, Asynchronous Processing, Database Design

## Education

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**Seneca Polytechnic** Sep 2019 – Aug 2023

Honours Bachelor of Technology – Software Development

**York University** Sep 2025 – Aug 2026

Bachelor of Education