

Eric Chanthalima

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EXPERIENCE

TekVision|Software Engineer, Platform & DevOps

Toronto, ON · Jun 2026 – Present

- Built the company's first automated deployment platform using **GitHub Actions**, **AWS ECS/CodeDeploy**, and **Terraform**, replacing manual SSH releases with blue/green deployments and automatic rollback, cutting release time from hours to **under 15 minutes**.
- Codified production infrastructure as code in **Terraform** (ECS, EC2, RDS PostgreSQL, ElastiCache, S3, CloudFront, IAM) and provisioned **8** isolated environments for enterprise banking clients, reducing environment setup from weeks to a single command.
- Eliminated long-lived AWS credentials from CI/CD by migrating to **GitHub OIDC** federated roles with per-environment scoping, **Secrets Manager**, and **SSM Parameter Store**, removing a standing credential-leak risk across all repositories.
- Built an automated regression suite in **Playwright** and **Node.js** that runs **175+** end-to-end checks against live systems on every deployment and blocks failing releases, catching defects before they reached customers.
- Authored and automated the company-wide release process, replacing ad-hoc deployments with immutable version-pinned artifacts and approval-gated promotion, giving every production change a complete audit trail.
- Led the production migration of an enterprise insurance client onto the new platform, porting **58** test suites and **40** scheduled jobs with full schema validation and automated regression, delivering on schedule with **zero data loss**.
- Diagnosed and resolved production outages across enterprise banking environments, including carrier-level call failures and a resource leak that silently stalled scheduled jobs, and authored runbooks to prevent recurrence.
- Reduced non-production AWS spend by **60%** through automated off-hours scheduling and built cross-account **CloudWatch** monitoring with daily health reporting.

Toronto Transit Commission (TTC)|Software Engineer Intern

Toronto, ON · Sep 2025 – Dec 2025

- Built a **C#/.NET 8** MVC web application with a **SQL Server** backend to replace manual legacy Excel workflows for **500+** daily supervisors at TTC's Control Centre, reducing route allocation errors by **30%**.
- Implemented the **GTFS Pathways** specification for station accessibility data, building a **Konva.js** drag-and-drop mapping editor that improved pathway mapping efficiency by **40%**.
- Developed an automated GTFS-compliant export pipeline packaging accessibility data for ingestion by Google Maps, Apple Maps, and Transit App, serving **4.6M** daily commuters.

Skyjack|Software Developer Intern, Full Stack

Guelph, ON · Jan – Apr 2025 · Jan – Apr 2024

- Led development of a defect reduction system using **C#**, **ASP.NET**, **React**, **TypeScript**, and **SQL**, improving production team response times by **85%** under high-load scenarios.
- Created RESTful APIs for high-volume data broadcasting, enabling real-time alerts and status updates across **15+** devices.
- Built location-based feature toggles and automated workflows for international teams, reducing support tickets by **35%** and environment setup time by **50%**.

PROJECTS

StaminaSense|Fatigue prediction wearable · ECE 498 Capstone

May 2025 – Apr 2026

- Built and deployed a real-time fatigue prediction model in **Python** (**scikit-learn**, **XGBoost**, **LightGBM**), benchmarking **12+** classifiers on **1,930** HRV samples with SMOTE resampling and custom feature engineering, served via a **FastAPI** endpoint (5-class accuracy $\geq 80\%$).
- Engineered a RESTful API in **Express.js/TypeScript** with JWT authentication, delivering **sub-100ms** response times under simulated load of **20** concurrent users.
- Developed a cross-platform **React Native** app with **Redux** for real-time fatigue monitoring and visualization, integrating with IoT sensors and cloud infrastructure.

SKILLS

Cloud & Infrastructure	AWS (ECS, EC2, CodeDeploy, ECR, RDS PostgreSQL, ElastiCache, S3, CloudFront, ALB, IAM & OIDC, Cognito, CloudWatch, SSM, Secrets Manager, Route 53), Terraform, CloudFormation, Docker, Linux, GCP Vertex AI
CI/CD & Reliability	GitHub Actions, GitOps, blue/green and canary deployments, automated rollback, Redis, incident response and root-cause analysis
Languages	TypeScript/JavaScript (Node.js), Python, Java, C#, SQL, Bash, C/C++
Frameworks & Testing	React, React Native, Express, Spring Boot, ASP.NET Core, FastAPI, PostgreSQL, SQL Server, Playwright, REST API design

EDUCATION

University of Waterloo — BAsC, Computer Engineering (Honours) · Dean's Honours List, Faculty of Engineering

Waterloo, ON · 2026