

WILLIAM EWANCHUK

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EDUCATION

University of Alberta | Computer Engineering Co-op Program | Cumulative GPA: 3.0 | Work term: April 20, 2026

EXPERIENCE

Software Engineering Intern **November 2024 – August 2025 (10 months)**

Company: Stepscale

Stack - Django, PostgreSQL, LangGraph, LangChain, OpenRouter, AWS Elastic Beanstalk, CloudWatch, Docker, Pipedream, Stripe, Amplitude, Redis, GitHub Actions

- Built an isolated Docker sandbox for LangGraph agents to run Python file generation and analysis with self review loops, improving safety and reproducibility
- Refactored an LLM report export pipeline to support PDF, Word, Excel, and Google Workspace integrations
- Implemented a **Redis** caching layer to pre warm LangChain conversation chains for connected integrations, reducing redundant LLM inference requests and improving response latency by **40%**
- Integrated Amplitude analytics to track LLM tool call errors, navigation, and landing page bounce rates, helping identify failing tool flows and high drop off pages
- Designed and secured backend endpoints for **Stripe** billing, including pricing tiers, subscriptions, and webhooks
- Monitored and debugged application deployments with AWS CloudWatch and GitHub Actions across dev, and prod environments, improving visibility into release issues
- Created a UI review checklist with screenshots, Figma links, and acceptance criteria for Jira ticketed code reviews to keep implementations consistent

PROJECTS

PrintMarket: Full Stack GitHub

Stack - Next.js, TypeScript, Spring Boot, Spring Security, PostgreSQL, JPA, OAuth, Stripe, Docker Compose, Nginx

- Built a full stack ecommerce platform for a small 3D printing business using **Next.js** and **Spring Boot**, combining SSR and CSR for SEO and faster initial page loads
- Implemented PostgreSQL session authentication in **Spring Security** with Google and Apple OAuth via NextAuth.js, including anonymous cart persistence through auto provisioned users, carts, and session tokens
- Developed protected admin inventory endpoints with Spring Security role based access control and form validation
- Integrated Stripe Checkout with catalog sync, cart to line item mapping, and server side payment verification using Stripe session data on checkout success

EKS Traffic Driven Scaling Platform: DevOps/SRE GitHub | Live Demo

Stack - Kubernetes, Helm, EKS, KEDA, Grafana, Prometheus, Terraform, Python, Docker, Redis, AWS CLI

- Deployed a FastAPI service to AWS EKS using Terraform, with automated TLS, monitoring, and PromQL autoscaling to benchmark Gunicorn worker and thread configurations
- Automated a CI/CD style deployment pipeline for AWS EKS using AWS CLI and Helm, including Route 53 DNS updates and NGINX Ingress TLS certificate provisioning with Let's Encrypt
- Enabled traffic based autoscaling with KEDA and Prometheus metrics, monitored in Grafana and load tested with k6, sustaining **5k+ RPS at 500 VUs**
- Built a lightweight dashboard for internal pod metrics and optimized CPU metric collection with a Redis shared cache to avoid redundant per container polling

SKILLS AND AWARDS

Languages - Python, JavaScript, TypeScript, Java, HTML, CSS, Bash, SQL, C, C+,

Frameworks - Nuxt.js, React.js, Next.js, Django, Express, Spring Boot, FastAPI

Databases - MySQL, PostgreSQL, SQLite, MongoDB

Cloud and DevOps - Kubernetes, Docker, Nginx, Terraform, Helm, AWS (EKS/EC2/S3/RDS/Cloudwatch), Linux/Unix

Dev Tools and Observability - Git, GitHub Actions, GitLab CI, Grafana, Prometheus, CloudWatch, JUnit, Figma