

Vishnudev Poil

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science - BASc, Management Engineering

Sep 2022 – May 2027

Relevant Courses: Data Structures & Algorithms, Search Engines & Databases, Intro to Machine Learning

EXPERIENCE

Amazon

May 2026 – Aug 2026

Software Engineer Intern, Amazon Ads

Toronto, ON

- Built an end-to-end UI testing framework using **Playwright**, **TypeScript**, and an **LLM** to auto-generate test suites, validating **60+ rendered states** in under **8 minutes** and catching **3 customer-facing regressions** before release
- Engineered an **agentic AI assistant** with TypeScript and **React** that translated **natural-language requests** into live dashboard actions via **LLM function/tool-calling** across **3 interactive smart-widget types**
- Deployed the AI test suite as an automated release gate in an **8-stage CI/CD pipeline** using **AWS CDK**, blocking promotions on any failed UI validation

OpenText

Jan 2026 – Apr 2026

Software Engineer Intern

Waterloo, ON

- Built a centralized log analytics platform consolidating **IIS**, **Akamai CDN**, and **Google Analytics**, processing **3M+ log events per month** using **Graylog**, **OpenSearch**, and **Python**
- Implemented log **normalization pipelines** to correlate traffic across CDN, origin, and analytics layers, enabling analysis across **10M+ historical events** through standardizing varied log formats
- Developed a custom reporting dashboard for stakeholders, by **exporting normalized logs as JSON**, loading aggregated data into **PostgreSQL**, and building an **Angular frontend with a Node.js backend**

Ground News

May 2025 – Aug 2025

Software Engineer Intern

Toronto, ON

- Rebuilt the News Retrieval & Ranking Engine with **Elasticsearch**, **Redis**, and **TypeScript**, improving article relevance by **35%** while increasing query handling capacity to support **2× more concurrent requests**
- Refactored backend reliability through **database partitioning** and deployed microservices on **AWS (EC2, S3, CloudFront)** to ensure reliable performance for **500K+ monthly readers** during peak traffic

Magnify Digital

Sep 2024 – Mar 2025

Software Engineer Intern

Vancouver, BC

- Implemented the ad campaign analytics using **Next.js**, **TypeScript**, and **GraphQL**, allowing marketing teams to visualize real-time ad performance and improve reporting accuracy by **30%**
- Developed data ingestion pipelines on **AWS Lambda and RDS**, integrating multiple third-party APIs to automate aggregation of **millions of ad impressions daily**

ShyftLabs

May 2024 – Aug 2024

Software Engineer Intern

Toronto, ON

- Built analytics dashboards for Carter, an AI-powered retail media network, using **Next.js** and **React** to visualize **campaign performance** and improve ad-reporting accuracy by **25%**
- Developed backend services with **Kotlin**, **Spring Boot**, and **GraphQL**, designing a **scalable API framework** that powered automated ad delivery and reduced response times by **30%**

PROJECTS

Beacon | Python, Flask, MongoDB, React, Redux, SCSS

- Developed a community-sourced platform for tracking local store inventory and wait times during supply shortages. Built a Flask API with robust input validation, designed MongoDB schemas for geolocated reports, and implemented a React/Redux frontend with real-time updates and moderation tools to ensure data quality.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML/CSS, Kotlin, GraphQL, Ruby, VBA, R

Frameworks & Libraries: Angular, React, Redux, Node.js, Spring Boot, Next.js, Express, Tailwind, Ruby on Rails

Databases & Search: PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, Elasticsearch, OpenSearch

Tools: Git, Docker, Kubernetes, Graylog, AWS, Confluence, Jira, Cypress, Sentry, Figma