Dhruv Patel

403-922-5465 | dap.patel@mail.utoronto.ca | dhruvpatel.com | github.com/d-p35 | linkedin.com/in/dhruv-ap

Technical Skills

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

Frameworks/Tools: Docker, Kubernetes, AWS, GCP, Kafka, gRPC, Spring Boot, React.js, Next.js, FastAPI, TensorFlow

Education

University of Toronto   Sep 2021 - May 2026
Honours Bachelors of Science in Computer Science   *GPA: 3.9/4.0*
Leadership: Teaching Assistant *(Computer Network and Security)*, Vice President *(Crypto Club)*

Experience

Tesla   May 2025 - Present
Software Engineer Intern (Go, Python)   *Austin, TX*
- Developed an AI assistant for on-call engineers using **Python (FastAPI)** and **Google ADK** that integrates with internal factory applications to autonomously debug on-call issues and log investigation reports to **Splunk**
- Deployed on-call agent using **Kubernetes** with request affinity configured to support fast in-memory session handling
- Centralized data flow and telemetry for 1.3K station controllers across factories by building a **Go-based** API Gateway
- Implemented middleware to flag malicious API requests, enhancing security and preventing over 12 data leaks

StackAdapt   Sep 2024 - Apr 2025
Software Engineer Intern (Go, Typescript, React.js)   *Toronto, ON*
- Engineered a **Go** and **gRPC** microservice for dynamic bidding optimization, processing 2.8M concurrent ad requests and reducing latency by 44% (tracked via Prometheus), contributing to $12M in incremental revenue
- Built a **TypeScript** tool that introduced bulk campaign actions, enabling 5K+ organizations to launch up to 1K ad campaigns simultaneously with minimal configuration
- Enabled real-time audience segmentation by developing caching layer with **Redis**, reducing query latency by 62%
- Designed and coded a **GraphQL** playground using **React.js** (TypeScript), optimizing QA workflows for rapid delivery
- Leveraged **Jest** for creating unit, integration, and E2E tests to expose 12 bugs in the SDK's insights reporting module

Lifomation ↗   May 2024 - Jan 2025
CTO & Lead Software Engineer (Java, Angular)   *Toronto, ON*
- Developed AI-driven family document platform and deployed on **GCP** Compute Engine for **Sequoia Capital** demo
- Introduced **Kafka** broker and consumer to decouple document ingestion from processing, enhancing system resilience

Softchoice   Sep 2023 - Dec 2023
Software Engineer Intern (Python, Java, SQL)   *Toronto, ON*
- Identified and eliminated **SQL** bottlenecks by optimizing queries in PostgreSQL, yielding a 38% speedup in production
- Migrated core services from **Python (Flask)** to **Java (Spring Boot)**, improving throughput by 3x for 11K users

Summations   May 2023 - Aug 2023
AI Software Engineer Intern (Next.js, TypeScript)   *Toronto, ON*
- Shipped a **Dockerized** AI tool that transforms academic research into classroom ready content for 5K+ educators
- Automated AI generated teaching content creation with **AWS Lambda**, reducing manual curation time by over 60%

Projects

ResumeRoast: Real Feedback, Real Results | Live | Product Demo | *Next.js, TypeScript, Langchain, AWS (EC2, S3)*
- Launched resume review app aiding job seekers land more interviews with 50 active users. Features: anonymous shareable links, reviewing with no sign-up (supports pins, highlights, drawing), clean organization for easy iteration
- Built AI feedback engine trained on 100+ FAANG resumes, delivering section-level critiques and actionable insights

UofT Clubhouse: Eventbrite For Campus Clubs | Live | *React.js, Express.js, TensorFlow, PyTorch*
- Developed and integrated social/clubs web app to UofT's official site resulting in a 32% increase in club memberships
- Implemented a recommendation engine to suggest clubs and events to students based on their interests and activity