

Niket Rathod

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EDUCATION

Carleton University

Bachelor of Computer Science Honours

Ottawa, ON

Expected Graduation: Dec. 2027

Aoyama Gakuin University

International Exchange

Tokyo, JP

Sept. 2024 – Sept. 2025

EXPERIENCE

Software Engineering Intern

Jan. 2026 – April 2026

Finance Canada (Secret Security Clearance)

Ottawa, ON

- Engineered **RAG AI** assistant with **Python**, Snowflake vector data stores, and **LLM integration**, enabling querying across 500+ federal documents, **reducing analyst research time by 80%**
- Built **serverless API** in **C#** using **Azure Functions** to validate and normalize tariff rebate forms data
- Led **2FA key deployment for 1,000+ employees**, automating key distribution, notifications, and SharePoint record updates with **Python** to **eliminate 10 hours of manual work per cycle**
- Delivered **technical demos to C-suite stakeholders**, iteratively refining features based on feedback, following **agile** principles across the **SDLC**

Data Analyst Intern

May 2024 – Sept. 2024

World Travel Protection

Toronto, ON

- Developed **Python ETL pipelines** to process and normalize multi-currency claim data via **REST APIs**, increasing report accuracy and **reducing manual data processing by 30%**
- Designed dashboards tracking claim volume, processing time, and error rates across regions, providing operational visibility for 15+ business stakeholders
- Automated claims reporting by building Python scripts to extract, transform, and load data into PowerBI with scheduled refreshes, reducing manual report generation by 60%

PROJECTS

Mental Wellness AI | Python, Flask, Gemini API, React, PostgreSQL, Supabase, Docker

- Built full-stack AI wellness app using **React**, **FastAPI**, and **PostgreSQL (Supabase)**, integrating Google Gemini LLM with advanced prompt engineering to deliver context-aware cognitive reframing responses
- Engineered secure backend with **JWT-based authentication**, implementing structured data persistence for user conversation history and session management across 30+ test users
- Containerized full-stack environment with **Docker**, streamlining development setup and ensuring consistent deployment across cloud environments

Cloud-Native Web App | Python, React, DynamoDB, Terraform, Github Actions, Cypress

- Developed serverless web app deployed on **AWS** using S3 and CloudFront CDN, implementing visitor tracking with **Python Lambda functions** and **DynamoDB** for scalable **NoSQL** data persistence
- Automated infrastructure provisioning with **Terraform** for version-controlled, reproducible deployments, managing AWS resources including Lambda, API Gateway, and S3 buckets as code
- Built **CI/CD pipeline** using **GitHub Actions** with automated testing via **Cypress**, enabling continuous integration and deployment with zero-downtime updates

Real-Time Messaging App | React, Node.js, Express.js, Socket.io, PostgreSQL

- Developed a web app providing real-time messaging through WebSockets using Socket.io
- Built a React frontend with Node.js server and Express.js for REST API endpoint routing
- Allowed type-safe database interactions using Prisma ORM with PostgreSQL

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, Go, HTML/CSS

Frameworks & Libraries: React, Node.js, FastAPI, Flask, Pandas, NumPy, Cypress

Cloud & DevOps: AWS (S3, Lambda, DynamoDB), Docker, Terraform, Kubernetes, GitHub Actions, CI/CD

Developer Tools: Docker, Terraform, Jenkins, Git, GitHub Actions, Linux/Unix Shell, Jira, Kubernetes

Certificates: Snowflake Data Engineering