Kshitij Vengurlekar

Software Engineer · Applied AI | Updated 25 Nov 2026

Ottawa, ON | writetokshitij@gmail.com | linkedin.com/in/kshitijv97 | github.com/KshitijV97 | kshitijv.vercel.app

Winter 2027 internship · Summer 2027 co-op · Applied AI, ML and AI platform engineering · Ottawa, Toronto or remote

Summary

Software engineer with six years shipping production fintech at HSBC and Deutsche Bank, promoted to AVP; now an M.Eng. Applied AI student at uOttawa building ML pipelines and agent guardrails that prove what they did.

Education

M.Eng., Electrical & Computer Engineering (Applied AI) | *University of Ottawa* — Ottawa, ON · Sep 2026 – Present

B.E., Electronics & Telecommunication | *University of Pune* — Pune, India · 2016 – 2020

Technical skills

Languages: Java, Go, TypeScript, Python, SQL, Solidity
AI / ML: PyTorch, MONAI, CUDA, TensorRT, ONNX, LangChain, RAG, AI agents
Backend & cloud: Spring Boot, gRPC, Event-driven, PostgreSQL, Google Cloud, Kubernetes, Terraform, Docker, CI/CD
Frontend: React, Redux, Micro-frontends, Vite, Turborepo, Storybook, Accessibility

Experience

Senior Software Engineer · Assistant Vice President — Sep 2024 – Jul 2026
Deutsche Bank · DWS (Xtrackers ETF platform) — *Pune, India*

- Owned moving portfolio composition calculations in-house, so DWS stopped buying the files from fund administrators
- Replaced fund managers' spreadsheets, VBA macros and ad-hoc scripts with tested, versioned Spring Boot microservices
- Promoted from Associate to Assistant Vice President (Mar 2026); designed the frontend track of graduate-hire training

Software Engineer · Associate — Jul 2022 – Sep 2024
Deutsche Bank · Corporate Bank Technology (Synthix neobank, cash management SaaS) — *Pune, India*

- Led Synthix's move to Vite Module Federation micro-frontends, so modules could be sold to clients separately
- Wrote an in-house headless data grid that replaced a paid third-party licence used by about 30 engineers
- Built Go services on Cloud Run and Pub/Sub with gRPC; hardened security with CSP, CORS, reCAPTCHA and PKCE
- Helped take a greenfield cash management SaaS (Spring Boot, React, Terraform) live with its first two corporate clients

Software Engineer (from Trainee Software Engineer) — Sep 2020 – Jun 2022
HSBC · Payments and Cash Management — *Pune, India*

- Built a greenfield ISO 20022 refunds product that became the bank's reference case for adopting Google Cloud
- Spring Boot microservices on GKE with Pub/Sub sagas, and a React portal with automated customer onboarding
- Led the development side of WCAG 2.0 AA compliance through an independent accessibility audit
- Replaced manual pipelines with one 20-minute Jenkins release, automating change orders, approvals and evidence

Projects

SwinUNETR → ONNX → TensorRT | *PyTorch, MONAI, TensorRT, ONNX* — 2026

- 3D CT segmentation compiled to TensorRT FP16: 5.58× faster than PyTorch FP32 at the same Dice on an NVIDIA T4

AI data governance for PIPEDA | *Python, OpenMetadata, Presidio, Docker* — uOttawa · 2026

- Team research project: Canada-tuned recognizers lift PII classification F1 from 0.78 to 0.94 on 145 labelled columns

Smart-grid load forecasting | *Python, XGBoost, Go, React* — uOttawa · 2026

- Next-day Ottawa demand forecasts with XGBoost on a leak-free split; Python ML service, Go API and React UI

GCP Fintech Architecture Playbook | *Terraform, Google Cloud, OPA, GDPR* — 2026

- Payment-fraud platform in five Google Cloud designs, with GDPR and PIPEDA control maps and CI-tested Terraform