

VINAY VALSON

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Portfolio — LinkedIn — GitHub

SUMMARY

Full-stack AI software engineer with 4+ years of experience building fintech and data-intensive web products across startup and enterprise teams. Experience with delivery in backend, frontend services, CI/CD, and cloud deployments, plus hands-on AI-agent and RAG project work for automation and support.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL

Frameworks & Platforms: React, Next.js, Django, REST APIs, PostgreSQL, MongoDB, Redis

AI & Agentic Systems: LLM workflows, RAG, Agent orchestration, Prompt and evaluation loops

Cloud, DevOps & Tooling: AWS, GCP, Docker, Kubernetes, GitHub Actions, CI/CD, Airflow, PostHog, Cursor, Claude Code

PROFESSIONAL EXPERIENCE

University of British Columbia

Vancouver, Canada

Research and Teaching Assistant

Jan 2026 – Present

- Building computer vision and MLOps components for a cow lameness detection pipeline for segmentation of workflows, evaluation metrics, backend-frontend, infra setup, with containerized inference services on OpenStack for scalable workloads.
- TA for Cloud Computing: ran tutorials and office hours for 60+ graduate students on distributed systems and deployment topics, and coached 12 capstone teams through architecture and design reviews toward more production-ready cloud deliverables.

Volentia Healthcare Translation

Vancouver, Canada

Software Developer

Jan 2026 – Feb 2026

- Built and launched a healthcare web application in two weeks, unifying translation request workflows for 40+ users across hospital staff, physicians, and research teams. Implemented CI/CD and cloud deployment pipelines, and supported translation/review workflow automation with human approval gates to improve release reliability and turnaround speed.

Blue Rabbit Group Ltd.

Hong Kong / India

Software Engineer (Remote)

Apr 2024 – Nov 2025

- Built data pipelines, real-time analytics workflows, and AI-assisted automation for portfolio and trading operations, reducing manual risk review workload across investment workflows.
- Shipped a Series A MVP using Django and React, including order placement and client dashboards with sub-second median response times for positions, risk, and market views; integrated DBS Bank APIs.
- Instrumented product funnels and A/B experiments with PostHog, and orchestrated agent-style analytics/reporting workflows with validation steps before operational use.

Oracle Financial Services Software Limited

Bangalore, India / Hong Kong

Staff Consultant - Software Engineer

Aug 2021 – Apr 2024

- Led onsite delivery for Oracle Banking Digital Experience (OBDX) in Hong Kong, shipping fraud detection and foreign exchange operations dashboards used in daily bank workflows.
- Built multi-tenant open banking and access management capabilities that reduced partner onboarding effort by approximately 40% compared with the prior process.
- Received Rising Star and Ever Ready awards; mentored and onboarded software engineers to the team.

EDUCATION

University of British Columbia

Vancouver, Canada

Master of Data Science

2025 – 2026

Academic Representative — Scholarship — ML, AI, Python, R

Savitribai Phule Pune University, Army Institute of Technology

Pune, India

Bachelor of Computer Engineering

2017 – 2021

CGPA: 8.91 — Scholarship — First Class with Distinction

PROJECTS

Cow Lameness Detection (CV / MLOps) – In-progress research pipeline for automated lameness screening: model integration, containerized inference on OpenStack with Docker; timeline fast-tracked toward deployable inference.

Predictive Analytics of External Factors on Clarius Scanner Sales – For my Graduate Program capstone, performed forecasting and exploratory analysis to evaluate how external factors influenced Clarius Mobile Health monthly scanner sales in Canada and US.

AI Agent Content Operations – Python application with content scoring, caption generation, human approval gates, and Instagram Graph API integration.

CocoaBoard – Interactive analytics dashboard with filtering, aggregation, and LLM chatbot-assisted exploration across country, product, and time dimensions.

RAG Music Search Platform – Natural-language retrieval system over Amazon Digital Music data using BM25 and optional dense retrieval for relevance improvements.

Imitation Game – Python encryption utility implementing symmetric and asymmetric cryptography with shared-secret and public-key interfaces.