

SUYOG ADHIKARI

Software Engineer — Production ML · Computer Vision · Backend Infrastructure

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SUMMARY

Software engineer focused on production ML systems, computer vision, inference optimization, and AI evaluation. Experience building Dockerized ML services, real-time CV pipelines, and evaluating frontier-model code and tool-use behavior.

SKILLS

ML & Vision: PyTorch, TensorFlow, OpenCV, scikit-learn, pyvips, Model Tuning, NumPy, Pandas

Distributed Systems & Backend: Python, asyncio, FastAPI, Kafka, gRPC, Protobuf, Redis, Celery, RabbitMQ, Django/DRF, Pydantic

Infrastructure & Observability: Docker, AWS, S3, OpenTelemetry, Prometheus, CI/CD, Microservices

Data & Frontend: PostgreSQL, SingleStore, SQLAlchemy, MySQL, DynamoDB, React, Next.js, Electron

EXPERIENCE

Cybord AI

Mar 2025 – Present · Remote

Software Engineer

- Engineered microservice backend for PCB inspection POC (board scanning, component analysis, multi-board comparison) accepted by SpaceX; now in production with full team.
- Architected production desktop application (Electron + FastAPI) integrating proprietary AI models with real-time inference for enterprise deployment.
- Reduced pipeline processing time from ~10 minutes to ~1 minute via task-graph parallelization; cut model inference time by 60% through multiprocessing optimization.
- Fine-tuned computer vision models to 95% production accuracy (+15%); automated visual data extraction saving 200+ engineering hours monthly.

DataAnnotation

Apr 2024 – Present · Remote

AI Training Specialist (Freelance)

- Evaluated frontier-model outputs for code generation, debugging, reasoning quality, and instruction following; produced comparative rankings for RLHF pipelines.
- Identified failure modes in multi-step reasoning, tool-use workflows, and agentic coding tasks, surfacing plausible-but-wrong code automated benchmarks miss.

Vanilla Transtechnor

Aug 2021 – Jul 2022 · Nepal

Software Engineer

- Developed scalable web applications serving 5,000+ daily active users using Django REST Framework and React.
- Standardized authentication/authorization across 12+ microservices via custom middleware, permission classes, and mixins.
- Orchestrated CI/CD pipelines, reducing deployment time by 40% and eliminating manual configuration errors.

Eightsquare

Jun 2019 – Jul 2021 · Nepal

Software Engineer

- Pioneered mobile SDK for Malaysian identity-document OCR (IDs, passports, visas), 80% faster through OpenCV optimization via JNI (C++).

- Engineered face recognition and liveness detection SDK with 97% accuracy, processing 10,000+ daily authentication requests.
- Architected multi-tenant push-notification SaaS for 50+ enterprise clients with 99.8% uptime; built employee management system serving 60,000+ users.
- Optimized SQL queries and database architecture, reducing server load by 40%.

EDUCATION

Lambton College, Toronto — Post-Graduate, Artificial Intelligence & Machine Learning

2024

Kathmandu University — B.Sc. Computer Science

2019