

# AAROGYA OJHA

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## SUMMARY

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Full Stack Engineer with 1.5+ years shipping production APIs, auth infrastructure, and ML-integrated features across TypeScript, PHP, and Python at Kathmandu startups. Comfortable adapting to any stack. Active NLP researcher — paper on cross-domain transformer evaluation (Twitter→IMDB) currently under peer review.

## TECHNICAL SKILLS

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<b>Core Stack</b>	TypeScript, Node.js, NestJS, Next.js 15, PHP, Laravel, Python
<b>Frontend</b>	React, Tailwind CSS, Shadcn/UI, Angular, HTML5, CSS3
<b>Backend &amp; APIs</b>	REST API Design, Prisma ORM, PostgreSQL, MongoDB, Elasticsearch
<b>DevOps &amp; Cloud</b>	AWS, Docker, Docker Compose, GitHub Actions CI/CD, Linux
<b>Auth &amp; Security</b>	JWT, Refresh Token Rotation, Cryptographic OTP, Passport.js, RBAC
<b>ML &amp; NLP</b>	PyTorch, DistilBERT, Scikit-learn, Pandas, Flask, TF-IDF

## EXPERIENCE

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**Associate Software Developer (Full Stack)** April 2026 – Present  
Conceptual Frame *Kathmandu, Nepal*

- Developing full-stack web applications and RESTful APIs end-to-end using PHP and Laravel, from requirements through deployment, following Agile workflows with cross-functional stakeholders.
- Designing scalable system architecture and leading technical design decisions for maintainable, multi-client production systems.
- Integrating third-party services and external APIs into client-facing applications; auditing and hardening API security (JWT middleware, rate limiting).

**Junior Full Stack Engineer** November 2025 – April 2026  
Ryyft *Kathmandu, Nepal*

- Designed and shipped production-grade RESTful APIs using NestJS, Prisma, and PostgreSQL, serving real user traffic at scale.
- Reduced API latency through performance profiling and query optimization across core product endpoints.
- Integrated supervised ML models into backend workflows to power personalized, data-driven product features.

**Full Stack Developer Intern** July 2024 – March 2025  
Abblor Tech *Bengaluru, India (Remote)*

- Built user-facing admin tools using Angular and REST APIs, streamlining operational data reporting workflows.
- Developed modular backend integrations improving code maintainability and reducing peer onboarding time.

## PROJECTS

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**Cross-Domain Sentiment Analysis — NLP Research** [GitHub](#)  
Benchmarked TF-IDF+LR vs. fine-tuned DistilBERT on Twitter→IMDB zero-shot transfer across 25K examples. Found DistilBERT's 7.3-pt in-domain advantage fully erased under domain shift (McNemar  $\chi^2=0.042$ ,  $p=0.838$ ). Under review at a peer-reviewed NLP conference.  
*Python · PyTorch · DistilBERT · Scikit-learn · Pandas*

**AuthProject — Production Auth Monorepo** [GitHub](#)  
NestJS + Next.js 15 monorepo with *Centralized Truth* Swagger architecture, cryptographic OTP, JWT + HttpOnly cookies with refresh token rotation, and forensic audit logging.  
*NestJS · Prisma · PostgreSQL · Passport.js · Next.js 15 · Docker · Swagger*

**RateLane — Shipping Carrier Integration Service** [GitHub](#)  
Production-grade shipping rate comparison platform with capability-based carrier architecture so adding a new carrier never touches existing code; JWT auth, RBAC dashboard, UPS API v2409.  
*NestJS · Prisma · PostgreSQL · Next.js · Docker · Swagger*

## EDUCATION

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**Bachelor of Engineering in Computer Science** 2021 – 2025  
CMR Institute of Technology, Bengaluru *CGPA: 8.5/10*  
Relevant coursework: Machine Learning, AI, Data Structures & Algorithms, OS, Computer Networks, DBMS, OOP.  
Secretary, Rise Technical Club (2023–24) — organized AI/ML workshops, mentored 20+ junior members.  
Finalist, Shristi Hackathon 2024 (Bengaluru) — awarded Rs. 50,000 for ML-powered solution.