SAROJ PRASAD MAINALI (VOIDCU)

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PROFESSIONAL SUMMARY

Full-stack developer and technical lead with **100+ websites**, **25+ web/mobile apps**, and extensive automation & research deliveries over five years. Lead Developer at *Neuron Nest* and *Elytra Solutions.* Skilled in FastAPI, NestJS, React/Next.js, Flutter, Docker, WEAP/SWAT hydrology workflows, Adobe After Effects, Photoshop, and modern AI tooling. Known for rapid prototyping, clean architectures, and mentoring junior developers.

EDUCATION

B.E. Computer Engineering, Tribhuvan University   2018 – 2023

SKILLS

Languages	Python, TypeScript/JavaScript, C/C++, Dart, php, SQL, Bash
Frameworks	FastAPI, NestJS, Django, Laravel, React Native, React/Next.js, Flutter
Containers	GitHub Actions CI/CD, Docker, basic Kubernetes,
Hydrology/GIS	WEAP, QSWAT/SWAT+, ArcGIS, QGIS, bias-correction workflows
AI/ML	PySpark, scikit-learn, TensorFlow/Keras, HuggingFace, prompt-engineering
Design	Adobe After Effects, Photoshop, Illustrator, Figma; Blender
Soft Skills	Agile leadership, mentoring, client communication, problem solving

ACHIEVEMENTS

LeetCode: 580+ problems solved; Global Ranking 98k (3 %)

EXPERIENCE

Lead Developer   Nov 2024 – Present
Neuron Nest, Kathmandu

- Architected multi-tenant EdTech SaaS (FastAPI/Next.js/PostgreSQL/K8s) with modular LMS, CRM, Finance; dynamic RBAC cut onboarding time 40%.
- Mentored four engineers and set up containerised CI/CD for daily releases.

Full-Stack Developer   Dec 2022 – Present
Elytra Solutions (Remote)

- Shipped 25+ web & mobile apps plus automation bots, saving clients 1 500 h/year.
- Led micro-service migration; Docker + GitHub Actions reduced deploy time 60%.

Tech Head   Feb 2025 – Present
KS Photography Station, Kathmandu

- Maintain and update all studio software; troubleshoot day-to-day tech issues.
- Assembled and configured high-performance PCs and a multi-drive NAS for secure, high-speed photo archiving and team collaboration.

Freelance Consultant / Full-Stack Engineer   Mar 2024 – Present

- Delivered 100+ responsive websites (Jamstack, WordPress, Shopify) and custom ERP modules.
- Performed WEAP scenario modelling & SWAT calibration for NGO water-resource studies.

Website Designer Feb 2022 – Dec 2022
BloomBytes, Kathmandu

- Crafted responsive UI for Engineers Nepal, tripling monthly visitors.

PROJECTS

Modular Student Management SaaS: FastAPI, Next.js, Docker; plug-in LMS/CRM/Finance; JWT auth & dynamic RBAC.

Handwritten Devanagari CNN – 99.98 % accuracy on DHCR; Android companion app.

Perceparator – Transformer isolates two speakers from single-channel audio (LibriMix).

Godawari WEAP Scenario Model – Forecasts basin water demand/supply to 2050 with bias-corrected CMIP6 inputs.

News-Portal Scraper – Python pipeline harvesting 300 k Nepali articles for language-tech research.

CERTIFICATIONS

Game Theory — Coursera	May 2023
Understanding Research Methods — Coursera	Apr 2023
Machine Learning Specialization — Coursera	Mar 2023
Advanced Learning Algorithms — Coursera	Mar 2023
Unsupervised Learning, Recommenders & RL — Coursera	Mar 2023
Supervised ML: Regression & Classification — Coursera	Jan 2023
Python Programming: A Concise Introduction — Coursera	Sep 2021