

Rohan Baidya

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Professional Summary

Full-stack Software Engineer and Data Science Master's student at the University of Naples Federico II, with 4+ years of professional experience and a Bachelor's Degree in Computer Engineering. Proficient in PHP, Python and JavaScript with applied experience in machine learning (PyTorch, Scikit-learn), full-stack web development (Laravel, Vue, React, Flask, FastAPI), and cloud-native CI/CD pipelines (Docker, Kubernetes, GitHub Actions), and experienced working in Scrum / Agile teams. Multilingual: English (professional), Italian (A2), Nepali and Newari (native).

Technical Skills

Programming Languages: Python, PHP, Ruby, JavaScript, TypeScript, Bash

Frameworks & Libraries: Laravel, Ruby on Rails, React, Vue, Flask, FastAPI, Tailwind CSS

DevOps, CI/CD & Cloud: Docker, Kubernetes, GitHub Actions, AWS (EC2, S3, SageMaker), Cloudflare

ML Tools: Pandas, NumPy, Scikit-learn, PyTorch, Hugging Face Transformers, LangChain, OpenCV

Databases: MySQL, PostgreSQL, Oracle PL/SQL, Neo4j, MongoDB, Redis, Elasticsearch

Testing, Dev & Doc Tools: Cypress, PHPUnit, Rspec, Git, Postman, Swagger, Jupyter Notebook

Professional Experience

Software Engineer

Sep 2023 – Jun 2024

Commish, USA (Remote)

- Delivered feature enhancements and bug fixes for the [Commish](#) sports commissioner platform built in Ruby on Rails; authored RSpec test suites to maintain code coverage and quality with a TDD approach
- Collaborated with the distributed product and engineering team in an Agile/Scrum workflow; contributed to sprint planning, code reviews, and pull request approvals via GitHub; debugged production issues and optimised ActiveRecord queries in the Rails monolith to reduce response latency

Software Engineer

Aug 2022 – Jun 2023

RVLIFE, Texas, USA (Remote)

- Developed and extended features for the [Campgrounds](#) outdoor travel platform using Laravel and Vue; resolved bugs, implemented hotfixes, eager loading to optimise database query performance
- Wrote PHPUnit and Cypress test suites, documented code, and used GitHub Actions for CI/CD
- Participated in Agile/Scrum including sprint planning, code reviews, and retrospectives

Junior Software Engineer

Sep 2019 – Jun 2022

Javra Software, Nepal

- Built full-stack features for the [TSAS](#) e-commerce platform using Laravel and Vue with PHPUnit tests
- Made custom Magento 2 modules for the [PFConcept](#) B2B eCommerce platform
- Integrated third-party REST APIs; contributed to code reviews and documentation

Technical Associate, Patan, Nepal

- Freelance project on configuring IoT sensors and ESP32 to fetch reservoir levels and pump status, and built a real-time web dashboard in PHP, Chart.js, and MySQL for data logging, visualisation, and control

Projects and Certifications

- **KUKL** — an IoT web application for real-time reservoir level monitoring and pump control system; built with ESP32, dashboard in PHP and Chart.js; deployed on cPanel hosting with live data ingestion
- **IDAGO** — an AI-driven resource allocation PoC (proof-of-concept) done under the supervision of **5G Academy** director, Prof. Antonia Maria Tulino with collaboration of **RESTART Foundation** as part of PNRR Framework to orchestrate rec-exec nodes across cloud and edge devices using IDAGO (Information-aware DAG Orchestrator) algorithm for intelligent task scheduling and resource management
- **5G Academy Postgraduate Certification** — **CeSMA**, University of Naples Federico II; coursework in 5G network infrastructures, edge computing, AWS SageMaker, EC2, Neo4j and AI-driven network management
- **CREA3** — a PhD research project under Prof. Flora Amato, focused on intelligent data processing and AI-driven legal conflict resolution

Education

Master of Science in Data Science

2024 – Present

University of Naples Federico II, Naples, Italy

- Coursework: Speech and Signal Processing, Time-Series Analysis, Statistical Learning, Deep Learning, NLP, Information Retrieval, Big Data using Databricks and Kafka
- unina.cc, a custom-made portal where study materials and project report can be accessed online
- unina.cc/vamp, Flask-based voice-prompt application, version-controlled with Git
- unina.cc/dmml, data mining and machine learning report on EEG-based eye state prediction
- unina.cc/slda, statistical analysis report on cancer risk level assessment

Bachelor of Engineering in Computer Engineering

2014 – 2018

Pokhara University, Pokhara, Nepal

CGPA: 3.12 / 4.0

- Elective major on Oracle 11g PL/SQL, ASP.NET and Java Hibernate
- Minor Project on Face Detection Recognition using Viola-Jones and Haar Cascades on Python and OpenCV
- Major Project on Online Medication and Electronic Health Records Management

Languages

English: Professional working proficiency

— Medium of Instruction certified (Pokhara University / Cosmos College)

Italian: Elementary proficiency, A2

— CLA certified (Centro Linguistico di Ateneo, University of Naples Federico II)

Nepali and Newari: Native speaker

References

Prof. Antonia Maria Tulino

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Prof. Flora Amato

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