Roshan K.C

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EDUCATION

Mount Annapurna Campus   Pokhara, Gandaki
Bsc. in Computer Science and Information Technology   *Expected Graduation: January 2026*

Relevant Courses: Introduction to Computer Science CS50X, **Data structure and Algorithm**, Image processing, Artificial Intelligence, Calculus II, Statistics II

Achievements :: **Best use of web3** at Vertex hacks 2023, **Member at Auraed**, **Most innovative Project award** at Utech hackathon beta 2024, **Winner** at CsitianHackfest 2025, **Executive at CSITIAN - Pokhara**.

Certifications: Microsoft Certified: Azure Fundamentals, CS50x, Python for Everybody Specialization

EXPERIENCE

Software Engineer   Sept 2024 – Present
Bingo Labs Private Limited   *Pokhara, Nepal*
  * Worked on microservices based application with **Nestjs**, and **RabbitMQ** for inhouse project
  * Designed and performed cloud deployment and CI/CD with **azure** and **github actions.**
  * Worked on building **AI automation** with **n8n** for various workflows.
  * Finetuned **llms** and i**mage processing models** for the application-specific requirements.

Full Stack Developer   Feb 2020 – June 2024
Perfect Web Solutions   *Pokhara, Nepal*
  * Developed REST APIs with ExpressJS, **Postgresql**, and **Prisma** for client projects.
  * Worked on **JWT-based** and role-based authorization on projects to secure the API endpoints.
  * Worked with figma and implemented frontend with **Reactjs** and Nextjs to make frontend robust and scalable
  * Created API documentation using **Postman** to promote collaboration among engineers.

PROJECTS

Cellsight | *Flask,tensorflowlite, raspberry pi, esp32 cam*   December, 2024

  · Automated microscope sampling with **AI-powered IOT device** that ran live inferences with tflite model.
  · Wrote code to capture live images with **Esp32 cam** and automated microscope movement with a stepper
  · Created a flask app that ran offline on **raspberry pi 4b** to run inferences and save patients details and enabled cloud backup with azure blob.

LeftoverLift | *Mantine, Nextjs, Solidity, Polygon, web3js*   Jan, 2023

  · Created project with **solidity** and **polygon** to create decentralized food waste and leftover management.
  · Deployed smart contract with polygon and created beautiful frontend with nextjs.
  · Competed with the project at Vertex Hacks Hackathon and secured the **best use of Web3** position.

Devfolio | *Reactjs, ExpressJS, Mongodb*   June, 2021

  · Built a platform where developers can create their portfolios and interact with each other.
  · Leveraged **ExpressJs** to handle requests to the REST API asynchronously, increasing the performance
  · **Containerized application** with **docker** to make development and deployment process efficient.

VOLUNTEERING EXPERIENCE

Microsoft Learn Student Ambassador   Nov 2023 – Present
Microsoft   *Asia Pacific*
  · Conducted **Azure cloud skill development challenges** affecting over 80 people.
  · Personally organized **6 workshops** regarding skill development in cloud, computer vision and AI.

TECHNICAL SKILLS

Languages: PHP, Java, JavaScript, TypeScript, Python, C, C#, SQL
Frameworks: ExpressJS, React Native, Nodejs, Nextjs, Flask, fastify, nestjs, fastapi, langchain
Developer Tools: Git, VS Code, GitHub actions, AWS, Docker, Postman, Figma, Azure cloud, Oracle cloud
Libraries: Reactjs, Tailwind CSS, Sass, Mongoose, Prisma, DrizzleORM, Pandas, Keras, OpenCV, TensorFlow