

Rishav Chapagain

9845920524 | gainrishavchap@gmail.com | [linkedin.com/in/rishav-chapagain](https://www.linkedin.com/in/rishav-chapagain) | github.com/rishavosaurus

EXPERIENCE

Associate Software Engineer <i>Workalaya</i>	Nov 2025 – Present <i>Lalitpur</i>
- Built a scalable Digital Garage platform using Node.js for online storage and management of vehicle data, delivering fast, secure, and reliable access through end-to-end full-stack development. - Designed and implemented a high-performance backend architecture using Redis for caching and Kafka for event-driven asynchronous processing, ensuring scalability, fault tolerance, and low latency. - Adopted a monorepo architecture using Nx to streamline development, enforce modular boundaries, and improve code maintainability and team productivity. - Integrated AI-powered features into the platform, including facial recognition for identity verification and automated vehicle data processing.	
Backend Developer <i>dl.surf</i>	July 2025 – Nov 2025 <i>Bhaktapur</i>
- Built and optimized an Advertisers Portal to manage campaigns for a platform with 300,000+ monthly users. - Enhanced scalability and performance of the system through efficient backend architecture and optimizations. - Implemented microservice-based architecture using GoLang, FastAPI, and Django, ensuring a robust and maintainable codebase.	

EDUCATION

Nepal College of Information Technology <i>Bachelor's in Software Engineering</i>	Lalitpur <i>Aug 2022 – Aug 2026</i>
Trinity International SS & College <i>Higher Secondary in Physics</i>	Kathmandu <i>Aug 2020 – May 2022</i>

PROJECTS

AcadNet <i>Node.js, Express, React, TypeScript</i>	Feb 2025 – Present
- Built an academic collaboration platform where students create study groups around a syllabus, share resources against its topics, and discuss them in per-group forums. - Public and private groups, with the option to join anonymously, and role-based access separating group admins from members. - File upload for notes and assignments, with admin approval before content is published; resources organised by syllabus topic and subtopic, with community rating. github.com/RishavOsaurus/AcadNet	
SFD Nepal <i>HTML, CSS, JavaScript</i>	Sept 2024
- Built and shipped the public website for Software Freedom Day Nepal, as part of the technical side of Nepal Open Source Klub's event work. - Hand-written HTML, CSS and JavaScript, no framework. sfd.nosk.org.np	
P2P File Sharing <i>Express, React</i>	
Peer-to-peer file sharing between clients, with an Express service behind a React client. github.com/RishavOsaurus/p2p-file-sharing	
WebSocket Chat <i>Node.js, WebSocket, Express</i>	
Real-time chat application built on WebSockets, served from a Node.js and Express backend. github.com/RishavOsaurus/Websockets_Chat	

PUBLICATIONS

Cricket Match Outcome Prediction Using Machine Learning <i>Machine Learning Research</i>	2024
- Conducted supervised machine learning research to predict match winners and score outcomes in <i>The Hundred</i> cricket league using multi-year match, player, team, and ball-by-ball data. - Implemented and evaluated Logistic Regression, Decision Tree, Random Forest, and Gradient Boosting models, demonstrating strong generalization performance for match outcome and score forecasting. doi.org/10.65091/icipset.v2i1.30	
Seasonal Price Forecasting of Agricultural Commodities in Nepal <i>Time-Series Analysis</i>	2024
- Analyzed long-term seasonal price behavior of agricultural commodities in Nepal using daily wholesale price data from Kalimati Tarkari Bazaar spanning 2013–2023. - Applied Facebook Prophet, STL decomposition, logistic regression, and K-means clustering to identify seasonal patterns, price volatility, and future price trends across six Nepali seasons. - Identified strong seasonal dependencies with peak prices during winter (Hemanta) and lower prices during monsoon (Barsha), and achieved moderate forecasting performance with Prophet (average MAE 32.95, R² 0.42). doi.org/10.65091/icipset.v2i1.20	

VOLUNTEERING EXPERIENCE

Program Lead <i>Nepal Open Source Klub</i>	Nov 2024 – Jan 2025 <i>Lalitpur</i>
- Spearheaded planning and execution of NOSKATHON Lite with 180+ participants, ensuring smooth end-to-end delivery. - Led cross-functional coordination among organizing teams, mentors, and participants to achieve event objectives. - Demonstrated adaptability under tight deadlines, successfully managing challenges and last-minute changes.	
Technical Lead <i>Nepal Open Source Klub</i>	Aug 2024 – Sept 2024 <i>Lalitpur</i>
- Developed and maintained the official website for Software Freedom Day 2024, ensuring accessibility and a smooth user experience. - Facilitated and maintained communication channels for the organizing committee. - Supported a community-driven event with 500+ attendees, promoting open-source awareness and collaboration.	

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), Go, Python
Backend & Frameworks: Django, FastAPI, Node.js, Express.js, Fastify, REST APIs, Socket.io, JWT, MongoDB, MySQL, Fiber, Redis, Kafka
Technologies & Tools: Docker, Git, Postman, Linux, AWS, VS Code
Libraries: pandas, NumPy