

ROHAN POUDEL

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EDUCATION

University of New Haven

Master's, Computer Science

August 2024 - May 2026 (Expected)

GPA: 3.78

- Relevant coursework: Algorithm Design and Analysis, Distributed Database Systems

Leeds Beckett University

Bachelor's, Computing

August 2020 - May 2023

GPA: 4

- Relevant coursework: Advance Software Engineering, Advance Web Engineering, Project Management, Database Systems

PROFESSIONAL EXPERIENCE

Danphe Software Labs

Software Engineer

Kathmandu, Bagmati, Nepal

July 2023 - July 2024

- Refactored legacy Ruby on Rails code for an internal tool, improving deployment efficiency and reducing system latency by 40%.
- Developed and debugged full-stack applications using Ruby on Rails, React, and React Native, enhancing feature delivery.
- Built an interactive survey feature, boosting user engagement and gift subscription conversions by 10%.
- Upgraded React Native apps for iOS TestFlight deployment, automating builds with Fastlane to streamline release processes.
- Migrated state management from Context to Redux in React Native apps, improving the performance of complex screens by over 50%.

Versity Tech

Software Engineer

Kathmandu, Bagmati, Nepal

January 2024 - June 2024

- Automated CI/CD pipelines and rollback processes for clients' VPS deployments using GitHub Actions, reducing deployment errors.
- Optimized frontend performance, achieving a 50% improvement in page load speed through code and asset optimizations.

Hult Prize Foundation

Organizing Committee Member

West Haven, CT, USA

November 2024 - February 2025

- Coordinated logistics for UNH's inaugural Hult Prize campus finals, managing events for 100+ participants.
- Organized speaker sessions with founders and industry mentors to support idea-stage teams in developing their pitches.

PROJECTS

TriGuard - arxiv.org/abs/2506.14217

- Developed a testing framework for AI model safety, focusing on attribution entropy, verification, and drift analysis.
- Tools used: Python, PyTorch, auto_LiRPA, TorchVision

CommuteMate (GoatHacks) - devpost.com/software/commutemate

- Built a ride-sharing app for university students to connect users with similar routes, reducing costs and emissions.
- Tools used: Django, React Native, TypeScript, Python, PostgreSQL

MedTrain AI (HackPrinceton) - dorahacks.io/buidl/19422

- Created a VR app on Meta Quest to enhance medical students' patient communication and diagnostic skills.
- Tools used: Unity, Ruby on Rails, Convai

Image and Video Compression - npmjs.com/package/image-and-video-compressor

- Developed a Node.js package for efficient image and video compression from the command line.
- Tools used: Node.js, JavaScript

SKILLS

Skills: Python, JavaScript, TypeScript, Ruby, SQL, HTML/CSS, Ruby on Rails, Django, FastAPI, React.js, React Native, Next.js, Docker, Agile, Linux/Unix, Postgres, MySQL, MongoDB, Git, Postman

Interests: Hackathons, Prototyping, Gaming, Astronomy, Motorcycling, Hiking