ROHAN POUDEL

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EDUCATION

University of New Haven   **August 2024 - May 2026**
Master's, Computer Science   *GPA: 3.78*
- Relevant coursework: Algorithm Design and Analysis, Distributed Database Systems

Leeds Beckett University   **August 2020 - May 2023**
Bachelor's, Computing   *GPA: 4*
- Relevant coursework: Advance Software Engineering, Advance Web Engineering, Project Management, Database Systems

PROFESSIONAL EXPERIENCE

Danphe Software Labs   **Bagmati, Nepal**
Software Engineer   *July 2023 - July 2024*
- Re-architected an internal tool in Ruby on Rails, refactoring legacy code to streamline deployments and reduce system latency by 40%
- Asssisted in developing and debugging full-stack web and mobile applications using Ruby on Rails, React, and React Native
- Developed a personalized interactive survey that increased user engagement and gift subscription conversions by 10%
- Upgraded and deployed React Native apps to iOS TestFlight, and automating builds with Fastlane
- Migrated state management from Context to Redux in React/React Native apps, improving performance of heavy screens by over 50%.

Versity Tech   **Remote**
Software Engineer   *January 2024 - June 2024*
- Automated CI/CD and rollback for client VPS deployments using GitHub Actions
- Increased page load speed by 50% through frontend performance optimizations.

Hult Prize Foundation   **West Haven, CT, USA**
Organizing Committee Member   *November 2024 - February 2025*
- Coordinated logistics for UNH's inaugural Hult Prize campus finals
- Facilitated speaker sessions with founders, investors, and industry mentors for idea-stage teams.

PROJECTS

TriGuard - *Link to project*
- A paper on testing framework for AI Model Safety with Attribution Entropy, Verification, and Drift.
- Tools used: Python, PyTorch, auto_LiRPA, TorchVision

CommuteMate (GoatHacks) - *Link to project*
- A ride-sharing app for university students that connects users with similar routes, reducing commuting costs and carbon footprints.
- Tools used: Django, React Native, TypeScript, Python, PostgreSQL

MedTrain AI (HackPrinceton) - *Link to project*
- A virtual reality app on Meta Quest to help medical students improve patient communication and diagnostic skills.
- Tools used: Unity, Ruby on Rails, Convai

Image and Video Compression - *Link to project*
- A Node.js package for compressing images and videos efficiently from the CLI.
- 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