**Rohan Timalsina**

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**EDUCATION**

**Web Development Bootcamp (YouTube & Udemy)**  **June 2024 – December 2024**

*Completed intensive, self-paced bootcamp programs focusing on:*

* HTML, CSS, JavaScript (ES6+), DOM Manipulation
* Frontend Frameworks: React, Next.js
* Backend Development: Node.js, Express, REST APIs
* Databases: MongoDB, PostgreSQL
* Deployment: Vercel, Netlify, GitHub Pages,GitHub

**Complete A.I. & Machine Learning, Data Science Bootcamp with Python Bootcamp(Udemy) June 2025 - Present**

*Completed comprehensive, self-paced bootcamp programs and Completed in-depth training covering:*

* Libraries: NumPy, Pandas , Web Development with Python: Flask
* Data Science Workflow: Data Collection, Cleaning, Analysis, Visualization
* AI Concepts: Supervised, Unsupervised Learning, Reinforcement Learning
* Machine Learning Algorithms: Regression, Classification, Clustering, Neural Networks
* Advanced Libraries: TensorFlow, Keras, PyTorch, OpenCV, NLTK, spaCy

**INDUSTRY EXPERIENCE**

***Uunchai (उँचाई) –*** *Virtual (Nepal/USA Collaboration)*  **January 2025 – Present**

*Coding Team Member (Cryptography & Mathematics Track)*

* Selected to join the Cryptography & Mathematics cohort to work on a real-world project: a secure web chat application utilizing Kyber (post-quantum cryptography) for encryption.
* Collaborating with a team of peers under the guidance of experienced mentors to design and implement encryption protocols.
* - Participating in code development, testing, and integration of advanced cryptographic methods into web communication systems.
* Contributing to the writing of a research paper documenting the design, encryption methods, and technical implementation of a secure web chat application utilizing Kyber (post-quantum cryptography).
* Engaged in documenting cryptographic design choices, technical architecture, and results for potential academic publication.

**PROJECTS**

1. ***Secure Web Chat Application (Uunchai Project)***

Contributed to the development of a secure, end-to-end encrypted web-based chat platform using Kyber post-quantum cryptography. Collaborated with peers and mentors across Nepal and the USA. Co-authored a research paper outlining encryption architecture, implementation, and security analysis.

1. ***We Chat App (with Clerk)***

Developed a real-time messaging application with Firebase backend and Clerk authentication. Integrated user registration/login, live chat updates, and secure session handling using modern authentication techniques.

1. ***BitLinks – URL Shortener Web App***
2. ***Portfolio Website***

**TECHNICAL SKILLS**

**Languages:** Python, Java, C++, SQL, JavaScript,C

**Frameworks/Libraries:** React, Node.js, Express, Flask,Pandas

**Tools:** Git, PostgreSQL