

# Abhiyan Sapkota

San Marcos, TX | [abhiyan@txstate.edu](mailto:abhiyan@txstate.edu) | [github.com/abhK0D3](https://github.com/abhK0D3)

## EDUCATION

### Texas State University

BS in Computer Science (GPA: 3.18)

San Marcos, TX

Aug. 2023 – July 2026

### Howard University

BS in Computer Science

Washington, D.C.

Aug. 2015 – Dec. 2018

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, TypeScript, SQL, HTML/CSS

**Frameworks:** React, FastAPI, Django, Node.js

**Developer Tools:** Git, Docker, Firebase, Android Studio, Linux

**Databases:** PostgreSQL, MongoDB, MySQL, Redis

## EXPERIENCE

### Software Engineer

Dec. 2023 – May 2024

*LandLocked Labs*

*Austin, TX*

- Developed real-time multiplayer card game logic using **Node.js** and **WebSockets**, enabling low-latency state synchronization across clients.
- Designed and implemented **FastAPI**-based REST services for user management, matchmaking, and game state persistence, optimized with **PostgreSQL** for concurrent users.
- Engineered a mentorship matching engine for a social networking platform using **FastAPI** and **PostgreSQL**, utilizing vector similarity to pair mentors with mentees based on technical skill sets.
- Developed a real-time activity feed and community forum using **React** and **WebSockets**, enabling seamless asynchronous communication for 500+ users.

### Co-founder

Jan. 2022 – Apr. 2023

*iuser solutions*

*Lalitpur, Nepal*

- Led end-to-end development of 2 hotel management web applications featuring real time booking using **React** and **Django** for 1,000+ active users.
- Architected an experimental pet products marketplace and e-commerce platform, integrating secure payment gateways and a dynamic inventory management system.
- Engineered a "Mobile Vet" booking service utilizing **Google Maps API** for real-time veterinarian tracking and automated appointment scheduling.
- Designed scalable system architectures and migrated legacy data to **MongoDB**, improving read/write performance by 30%.

### Software Engineer

Sept. 2020 – July 2021

*AankhiJhyal Technologies*

*Pokhara, Nepal*

- Developed a native Android language-learning app for elementary students using **Java** and **Firebase**, facilitating English-to-Nepali and Nepali-to-English translation and vocabulary building.
- Implemented a real-time student progress dashboard with **Firebase Realtime Database**, **LiveData**, and **MVVM architecture**, providing teachers actionable analytics on vocabulary mastery and lesson completion.
- Integrated an offline study mode using **Room Database** and **Bluetooth API** for peer-to-peer data synchronization in low-connectivity environments.
- Boosted workflow efficiency by 25% by implementing **Scrum** methodologies and automated unit testing.

## PROJECTS

### Flash-AI: Intelligent Study Platform | *React, FastAPI, PostgreSQL*

Jan. 2026 – Present

- Building a full-stack app that uses **Gemini 2.0** to dynamically generate flashcards and quizzes from user requests.
- Engineered **Spaced-Repetition Algorithm** to calculate optimal review intervals, encouraging efficient learning.
- Managed asynchronous AI processing with **Redis** to ensure a responsive UI during computation.

## HONORS & AWARDS

### Howard West Scholar | *Co-organized by Google and Howard University*

May 2017 – Aug. 2017

- Selected as one of 26 scholars for an immersive and accelerated summer program mentored by Google Engineers.