

# Prabin Baral

## Bachelor's in Computer Engineering

prabin.baral00@gmail.com

(+977)9846868438

Pokhara-13, Nepal

### WORK EXPERIENCE

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#### Ibriz.ai - Associate Software Engineer

2023 - current

Remote

- Developed and maintained Game Engines for on-chain games on ICON and BASE platforms
- Contributed to the back-end development for the Gangstaverse project, ensuring seamless integration with blockchain technologies
- Led back-end development of Battle of Ruby Valley game, working on both off-chain and on-chain (SUI) components to enhance gameplay and user experience

#### Ibriz.ai - Blockchain Developer Intern

2022 - 2023

Onsite(Kathmandu)

- Developed and executed multiple test cases for Solidity smart contracts as part of the Wondergame project
- Worked on the back-end integration of a Tezos blockchain NFT marketplace, developing various scripts to synchronize on-chain data efficiently

#### Black Tech - Internship as a MERN Stack Developer

2021 - 2022

Onsite(Pokhara)

- Contributed to the development of RestroX, a comprehensive restaurant management system handling staff coordination, table management, KOT (Kitchen Order Ticket) processing, and various other operational aspects
- Contributed to multiple e-commerce projects, working on both frontend and backend development

### PROJECTS

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#### Battle of Ruby valley - Group Member

- Developed and implemented off-chain and on-chain components for a complete game utilizing the SUI blockchain
- Designed and executed various scripts for seamless synchronization of on-chain and off-chain data, ensuring real-time consistency and integrity across the game ecosystem
- Engineered back-end solutions to support both on-chain and off-chain game functionalities, enhancing overall system performance and reliability
- Developed and integrated real-time public and faction-based chat systems using WebSocket technology, enabling dynamic and interactive communication within the game

## **GangstaVerse - Group Member**

- Contributed to the game engine development for GangstaVerse, focusing on optimizing game mechanics and performance for enhanced user experience
- Designed and implemented a map filter system for Emerald City
- Developed and integrated a character generation system utilizing TOWER tokens, enabling unique and customizable in-game avatars

## **TZCreator - Group Member**

- Developed backend flow for on-chain art generation on Tezos blockchain, ensuring accurate attribute-based creation.
- Integrated a marketplace platform for showcasing generated art, enhancing user engagement and transaction efficiency
- Developed various scripts for synchronizing on-chain data, ensuring real-time accuracy and consistency between the blockchain and associated systems

## **RestroX - Group Member**

- Developed and managed the menu and inventory systems, ensuring seamless updates and integration for efficient restaurant operations
- Implemented and optimized the staff and checkout systems, enhancing transaction processing and staff management efficiency

## **NFT Gift Exchange - Personal Project**

- Designed and developed a platform for gifting and exchanging NFTs, enabling users to seamlessly transfer digital assets in a secure and user-friendly environment
- Implemented smart contract functionality to facilitate NFT exchanges, ensuring transparency and trust in peer-to-peer transactions

## **Ajin Ecommerce - Personal Project**

- Developed an e-commerce platform enabling purchases through a local payment gateway (Khalti) or AJIN Coin (ERC20), integrating on-chain transactions for secure and versatile payment options
- Implemented a reward system where users earn AJIN Coins for purchases, which can be redeemed in future transactions, fostering customer loyalty and engagement

## **EDUCATION**

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### **Pokhara University / Pokhara Engineering College - Bachelor in Computer Engineering**

2017 - 2022

Pokhara-8, Nepal

### **Bhadrakali Higher Secondary School - Science**

2015 - 2017

Pokhara-13, Nepal

## SKILLS

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**Programming Languages:** JavaScript/typescript, Solidity, Rust

**Web Development:** HTML, CSS, React, Node.js

**Blockchain Development:** Solidity, Smart Contracts, Web3.js, SUI, Tezos

**Database Management:** MySQL, MongoDB

**Version Control:** Git, GitHub, GitLab

## Research Interest

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- Decentralized Finance (DeFi)
- Blockchain Scalability Solutions
- Cryptographic Algorithms and Protocols
- Consensus Mechanisms (PoW, PoS, etc.)
- Tokenomics and Digital Assets