

SUMMARY

I am a Senior Software Engineer with extensive experience in JAVA/Scala, Python, and Node.js, with a strong background in the Healthcare, Fintech, and Web3 industries. My primary expertise lies in backend development, focusing on Blockchain technologies and Artificial Intelligence. Specialized in designing and developing advanced decentralized applications, my skill set encompasses dApps (backend/smart contracts) and the utilization of blockchain platforms such as Ethereum, Polygon, BASE, SUI, ICON, and Solana for driving business innovation. AI includes traditional descriptive and predictive analytics, NLP, system architecture for AI systems, with a notable emphasis on Generative AI and model fine-tuning. Seeking opportunities to continue leading advancements in Blockchain and AI, I am eager to contribute my unique skills and passion to teams at the forefront of the next wave of digital transformation.

TECHNICAL SKILLS

Languages: Java, Rust, TypeScript, Python, Solidity, Scala Frameworks: Hardhat/Foundry toolchain, Pytorch, Tensorflow, Keras, Spring, Akka, Mokito Developer Tools: Kubernetes, Docker, Apache Beam, Hive, Spark, Kafka, Grafana, Kibana, DynamoDB, Mongo Cloud Platform: AWS, GCP, Fly

EXPERIENCE

iBriz.ai

Senior Software Architect (Blockchain/AI)/Team Lead

• Development of descriptive and predictive analytics platform, LLM powered apps, evaluation framework for LLM apps, etc

- Consultation on Aleo Eth Bridge (Aleo to Ethereum)
- Building cross chained assets using LayerZero Protocol
- Build infra and codebases for blockchain projects Crazy Defense Heroes, Benji Bananas, OpenCampus, etc
- Increase user base by more than double for web2/web3 platform
- Bridging of multiple ERC20 and ERC721/ERC1155 tokens
- Consultation and development on various GameFi Projects Wondergame, Gangstaverse, Anichess, CoolCats, etc
- Support and consultation on various Defi Projects Balanced.network, Icon Bridge, BTP

Oyster Financial LLC

Software Engineer

- Developed high performance Microservices for Fintech product (Scala/Java/Python)
- Planning, designing, and developing customer facing as well as internal tools for the company.

iBriz.ai

Senior Software Engineer/Team Lead

- Designed and developed high performance data management and predictive analytics platform (Python/React)
- Research and product development on EEG data for mindfulness and consciousness of Monk's during meditative state
- Blockchain products (ERC20/NFTs/Games/Webapp) on various blockchain (Ethereum/ICON/Harmony/Celo/Decred/Solana)

Deerwalk Services, Sifal, Kathmandu

Associate Software Engineer

- Developed maintainable code for DeerwalkOne Plan Analytics as both Backend and Frontend developer (Java/Grails/Python/Js).
- Reworked on new performant system to increase performance up to 50%
- Lead team of 5, to build predictive and descriptive analytics platform
- Modified existing software to correct errors, upgrades, and improve performance.

Sept 2015 – July 2018 Sifal, Kathmandu, Nepal

Dec 2021 – Present Kathmandu, Nepal

Kathmandu, Nepal

Aug 2018 - Nov 2021

Feb 2019 - Nov 2021

Kathmandu, Nepal

Deerwalk Services, Sifal, Kathmandu

Intern

Idea Inc. Pvt. Ltd.

 $PHP \ Developer$

May 2015 - Aug 2015 Sifal, Kathmandu, Nepal 2015 - 5 Months Sallaghari, Bhaktapur, Nepal

- Designed and developed architecture for data management as in-house project.
- Worked for optimization of products (SMS Gateway/Project Management).

Personal Projects

 SMART POT Rust Developed AI driven smart pot, that monitors and waters pot Blockchain technology to verify authenticity of plant's care history 	2024
 PRIVATE TRANSACTION ON SUI Rust Developed secure platform to do private transaction on SUI blockchain 	2023
 BLOCKCHAIN EVENT PUSHER Python Developed secure, scalable backend service for managing and monitoring smart contracts on EVM-comnetworks, pushing events to webhook/email 	2021 apatible
 VIDEO ANALYTICS PLATFORM FOR PARKING LOT Python Working system for counting number of vehicles coming inside parking area 	2021
 NETWORK THREAT DETECTION USING FEDERATED LEARNING Python Worked on Network Threat Detection using Federated Learning with PySyft for enhanced cybersecurit on devices connected to network while keeping data private 	2020 ty measures
CREDIT SCORING MODEL FOR TARGETED MARKETING <i>Python</i> • Generated a credit scoring model for targeted marketing to different campaigns based on location and	2020 user group.
 SPEECH RECOGNITION FOR HOME AUTOMATION Python, RaspberryPi Deployed speech recognition for home automation, controlling electronic devices with RaspberryPi and electronics. 	2016 l basic
 KATHMANDU UNIVERSITY PRINTER ADMINISTRATION C# Developed a system to provide users with printer access according to their privileges in Kathmandu Usensuring proper administration over network printers. 	2014 niversity,
 KATHMANDU UNIVERSITY SECURITY AUDIT AND OPTIMIZATION Performed comprehensive security assessment for Kathmandu University's network and web servers, ac vulnerabilities and recommending remedial actions 	2013 ldressing
KU-ROVER JAVA/ArduinoEngineered a real-time video transmission and robot control system.	2013
Leadership	

LEADERSHIP

Organized KU Code Battle in KU ITMeet 2014 - Lead

Lead a Mathematics Exhibition Team at Sainik Awasiya Mahavidhyalaya Silver Jubilee - 2010

Education

Kathmandu University	Dhulikhel, Kavre, Nepal
Bachelors, KU BOARD	2011 - 2015
Birendra Sainik Awasiya Mahavidhyalaya	Bhaktapur, Nepal
High School, HSEB Board	2010 - 2011
East Point Academy Sec. School	Bhaktapur, Nepal

SLC, Nepal Board

PARTICIPATION

Participated in NASA Space App Challenge 2014 – Focus: Gravity Participated in Hackathon IT Meet 2013 – Project: Pathsala Volunteered in e-Library Projects for primary and secondary schools CERTIFICATIONS AND MOOCS Secure and Private AI Scholarship Challenge – Udacity Facebook Scholar The Complete Ethical Hacking Course: Beginner to Advanced! – Udemy Machine Learning Foundations: A Case Study Approach – Coursera Practical Machine Learning by Johns Hopkins University – Coursera Fastai v1 2017 PyTorch Scholarship Challenge 2018

Microsoft Certification Exam 480 (Programming in HTML5 with JavaScript and CSS3)

Certificate on completion Beginners Ruby on Rails - CodeSchool