

Anish Shrestha

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Education

Master of Computer Science

Louisiana State University, Expected Graduation: December 2022

Jan 2021 - Current

Baton Rouge, LA, U.S.A

Bachelors in Computer Engineering

Pulchowk Campus, Tribhuvan University (Top 1% of 15,000 potential enrollments)

Aug 2014 - 2018

Lalitpur, Nepal

Skills

Programming: Java(Spring Boot, Hibernate, Spark), JavaScript (ReactJS, Nodejs, Express, Redux), Typescript, Python (Pandas), C++, Solidity

Web: HTML5, CSS, Django, Flask, AntD, Tailwind CSS, Sass

Tools: Git, Postman, Jenkins, Docker, MariaDB, MongoDB, PostgreSQL, Redis, System Administration (Unix/Linux)

Design: Adobe Illustrator, Adobe After Effects, Adobe InDesign, Figma, Proto.io

Work Experience

Graduate Teaching Assistant

Louisiana State University

Jan 2021 – current

Baton Rouge, LA, U.S.A

- Led Blockchain and Cryptography course with IBM team to integrate **IBM Blockchain Platform** into course material.
- Led labs for courses related to **Java Programming, Numerical methods, and Matlab**.
- Designed **Hyperledger Fabric** assignments and projects for senior level undergraduate class.

Software Engineer

SIRETO TECHNOLOGY

Sept 2018 – Dec 2020

Lalitpur, Nepal

- One of the first 3 employees of this Startup. Handled the **Front-End and Mobile Application Development of every project**.
- Led development of cryptocurrency-based investment platforms and real time visualization applications.
- Developed **ReactJS** based Single Page Applications and **React Native/Flutter** based cross platform mobile applications.
- Designed style guides from Mockup platforms like Figma to **CSS**. Changed existing CSS to **Sass** files reducing lines of code by 300%.
- Designed database schema for mobile applications using **SQLite** and implemented normalization, syncing and caching mechanisms.
- Integrated various **microservices** such as Authentication, **SQL** server, Media Storage, Email, and messaging, **Ethereum** and **Bitcoin** Nodes.
- Modified application for existing **CI/CD** pipelines and wrote deployment scripts for **Docker**.
- Extensively used **React, Redux, TypeScript, Java, Spring boot and Hibernate ORM**. Also used **Docker** and **Jenkins**.

Blockchain Research Intern

SIRETO TECHNOLOGY

Jan 2018 – Sept 2018

Lalitpur, Nepal

- Learned cryptographic algorithms and analysis of security vulnerabilities in Ethereum smart contracts written in **Solidity**.
- Implemented Kademlia protocol for node discovery and message transmission in a P2P network.
- Created and reviewed ERC20 reusable general purpose smart contracts to store user profile and balance data.

Software Engineering Intern

Togglecorp Solutions

Jan 2017 – Dec 2018

Lalitpur, Nepal

- Worked with humanitarian teams to design and finalize mockups for a big data analysis platform thedeep.io.
- Designed graphic assets and animations to be used in web platforms using **Adobe Illustrator and After Effects**.
- Developed android application for **indexing and search** of digital books.

Notable Projects

[StartMark.de](https://startmark.de)

- An investment platform that offers a ERC20 security token as proof of investment.
- Worked closely with stakeholder and developers for requirement and bug analysis; Used Figma to design initial Mockups.
- Developed mockups into final web and mobile applications. Used ReactJS and React Native.

[Fluidensity.art](https://fluidensity.art)

- A platform for artists to tokenize their art and sculptures and host Initial Public Offerings.

[ID21](https://id21.io)

- A web solution for form creation and sharing to securely collect user responses with core focus of data privacy and encryption.
- Designed and developed landing page and web portal using ReactJS
- Led a team of junior developers with daily **SCRUM** meetings, weekly black box testing and enforced **Agile workflows**.

Decentralized Secure Cloud Storage Using Blockchain

- A P2P network that allows users to store files split across multiple nodes, providing complete data protection and pseudo-anonymity.
- Implemented Kademlia protocols for discovery of nodes in **serverless** distributed systems with parallelized data transmission
- Created a real-time node and file monitoring interface and an android application for clients to transmit files, written in Java.

Honors and Awards

2022	Presenter , Demo presentation, Mobicom 2021, New Orleans	<i>Mobicom 2021</i>
2019	Contributor , Open Science Organization, Github	<i>OSO Network</i>
2018	Organizer , Hack-A-Week hackathon, Locus	<i>Nepal</i>
2018	Certified , Artificial Intelligence micromasters(Certificate ID: 618c297a6309414d9b5d26d261197041)	<i>edX Inc</i>
2016	Winner , Recipient of "Fusemachine Nepal AI Fellowship 2018" Winner, 2 nd runner up "Yomari	<i>Nepal</i>
2016	Locus Codecamp 2016	<i>Nepal</i>
2016	Volunteer , Help Nepal Network volunteer to set up computers in remote schools of Nepal	<i>Nepal</i>
2015	Winner , 1 st runner up "Yomari Codecamp 2015"	<i>Nepal</i>
2015	Winner , 2 nd runner up "Locus Codecamp 2015", Locus	<i>Nepal</i>