Tezan Sahu

THIRD YEAR UNDERGRADUATE

IIT Bombay, India

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Education

IIT Bombay	*August 2017 - Graduation 2021*
B.Tech. in Mechanical Engineering	*CPI: 9.84*
Minor in Computer Science and Engineering	*CPI in CS Courses: 10*
Jaipuriar School	*2017*
Intermediate/+2	*96.2%*
St. Mary's ICSE School	*2015*
Matriculation (All India Rank - 1)	*99.2%*

Work Experience

WandX Solutions Pvt. Ltd. *Bengaluru*

Blockchain Engineering Intern *May-Jul 2019*

- Developed a solution for WandX Desktop Application by aggregating multiple cryptocurrency exchanges to display best trades to the user
- Engineered smart contracts for implementing confidential transactions of fiat-backed stable coins using AZTEC protocol for WalletSocket Inc.
- Developed a new Security Token standard around ERC721 tokens using IPFS for storing proofs, along with proof verification strategies
- Fabricated python microservices to manage AZTEC notes, that would communicate with the databases and the blockchain

Encoro Solutions Pvt. Ltd. *Mumbai*

Backend Developer *Jan-Mar 2019*

- Aided in formalizing and implementing the mathematical model to figure out the key nodes as part of Social Network Analysis
- Analysed and evaluated the model to suggest the incorporation of various new parameters to improve the model

Dunya Labs (India) Pvt. Ltd. *Bengaluru*

Blockchain Research Intern *Dec. 2018*

- Analyzed block data worth several days to formulate and test metrics for the middleware being developed on the EOS Blockchain
- Explored the working and applications of Zero-Knowledge Proof Systems such as SNARKs, STARKs and Bulletproofs on various blockchains
- Brainstormed about middlewares and services that could be built on top of upcoming blockchains such as Dfinity and Polkadot
- Studied research papers and articles involving Blockchain Governance, Sharding Solutions, Accumulators and Anonymous Credentials

Projects

Waffle-CLI: An Explorer for Ethereum [Code] *Hobby Project*

Beyond Blockchain Hackathon, Gitcoin *Jul 2019*

- Created a CLI tool, similar to an Ethereum block explorer, curated for developers to monitor smart contracts, transactions and events
- Enabled custom filtering of transactions and events based on function signatures and local timestamps, along with ENS Domain resolution

Attendance System using Face Recognition [Code] [Video] *Technical Council, IIT Bombay*

Institute Technical Summer Project *May - Jul 2018*

- Led a team of 4 members to construct an Attendance Recording Bot that could mark the attendance of students using face recognition
- Developed 2 Android apps, one for the students to check their attendance and another for controlling the bot using bluetooth
- Deployed a database on a Pythonanywhere Server for storing the information about students and professors using Django framework
- Implemented the "face_recognition" model after tuning the parameters on the faces of 200 students and attained an accuracy of around 95%

Reading Project On "Machine Learning" [Report] *MnP Club , IIT Bombay*

Summer of Science *May - Jul 2018*

- Implemented regression, classification, clustering and data retrieval algorithms along with various neural networks on datasets involving real estate, sentiment analysis, Wikipedia document classification, Speech recognition, movie recommender systems and animal recognition
- Analyzed research papers about Principle Component Analysis (PCA), Independent Component Analysis (ICA), Spectral Clustering, different Distance Metrics and Long-Short Term Memory (LSTM) Neural Networks.

Decentalized Application for Land Registration [Code] *Hobby Project*

- Developed a Decentralized App (DApp) for land registration and transfer using the APIs of Lendroid
- Tokenized the land based on the area and location so that it could be used as a collateral while borrowing/lending cryptocurrency
- Successfully deployed 4 smart contracts to achieve the above on Ethereum's Ropsten Testnet as the Proof of Concept

Air Quality Index Mobile Application [Code] *Hobby Project*

- Built an Android application that could be used to determine the Air Quality of a city in terms of parameters such as NO_2, SO_2, CO, O_3 and SPM
- Incorporated the OpenAQ API service to fetch data about the latest values of air quality parameters for the city as entered by the user
- Displayed a legend of about the details of each parameter using the "parameter" endpoint of OpenAQ API

Achievements

Aug 2018	**Top Hack Prize,** Lendroid track, ETHIndia Hackathon	*Bengaluru*
Present	**Department Rank 1,** Mechanical Engineering Department, IIT Bombay	*IIT Bombay*
2017	**All India Rank 514,** JEE Advanced Examination, among 0.22 million aspirants	*India*
2015	**All India Rank 1,** ICSE Board Examination, among 0.16 million students	*India*

Positions of Responsibility

Co-Founder
BLOCKCHAIN@IITB CIRCLE, THE WEB AND CODING CLUB

IIT Bombay
Aug 2018 - Present

- Organized and gave talks on Blockchain Basics, Decentralization Application (DApp) Development on Ethereum and Scaling Solutions
- Conceptualized and built the community Facebook group and Slack channel to circulate reading material and encourage discussions
- Established ties with Dunya Labs, Matic Network, bitgrit, Blockchained India, Devfolio and multiple other sponsors.

Convener
THE WEB AND CODING CLUB, INSTITUTE TECHNICAL COUNCIL [WEBSITE]

IIT Bombay
Apr 2018 - Present

- Part of a team of 22 students, catering to 5000+ coding enthusiasts and students on campus through talks, workshops, hackathons, etc.
- Organized and spoke at sessions on Web Scraping, Game development, Version Control, Open Source and Blockchain Essentials
- Contributed towards developing and maintaining the website for Inter IIT Tech Meet 2018, held at IIT Bombay
- Conceptualized and co-founded the Blockchain@IITB Circle to promote and encourage blockchain research and development in the campus

Web and Marketing Coordinator
THE ENTREPRENEURSHIP CELL [WEBSITE]

IIT Bombay
Mar 2018 - Present

- Led the organizing team for I_Hack Hackathon, E-Summit 2019, reaching out to 50+ companies and 500+ hackers
- Single-handedly developed the website for the DLT Innovation Challenge, a pan-India level hackathon based on Distributed Ledger Technology
- Contacted 200+ companies to explore new synergies for Eureka! 2018 and E-summit 2019, ensuring completion of all promised deliverables
- Mentored 20 freshmen in case study solving, BMC filling and pitch deck making during EnB Buzz at IIT Bombay

Class Representative
MECHANICAL ENGINEERING DEPARTMENT [WEBSITE]

IIT Bombay
Aug 2018 - Present

- Played an active role in scheduling lectures, labs and examinations during the semesters along with talks, workshops and site visits
- Conveyed the opinions of peers effectively to the respective professors and department council members as and when required

School Head Boy
ST. MARY'S ICSE SCHOOL

St. Mary's ICSE School
Feb 2014 - Jan 2015

- Managed a council of 20 students, responsible for the management of the discipline and 20+ intra and inter-school events
- Represented and won accolades for the school in several inter-school competitions and fests during the tenure

Technical Proficiency

Programming	Python, C/C++, JAVA, HTML5, CSS3, Javascript
Development	Django, TensorFlow, Keras, Graphlab Create, Solidity, SQL, Jekyll Node.JS, AngularJS, Ionic Framework
Software/Tools	Git, JIRA, MATLAB, Octave, Truffle, Embark, EOSIO, LaTeX, AutoCAD, SolidWorks, Photoshop, Premiere Pro, Arduino, AWS

Certifications

Jul 2018	**Blockchain Fundamentals Training** [View]	*Blockchain Semantics*
May 2018	**Machine Learning Specialization** [View]	*University of Washington & Coursera*
Apr 2018	**Certified Marketing Analytics Practitioner**	*Henry Harvin Education*

Extracurricular Activity

Art/Painting	• Conducted 3 solo painting exhibitions featuring 101, 135 and 68 paintings • Excelled in Elementary and Intermediate Drawing Grade Examinations with an A Grade • Secured International Best Prize at UNICEF's Japan International Painting Competition 2014
Music	• Completed 3rd Year in Hindustani Classical Vocals
Sports	• Successfully completed one year of Squash under National Sports Organization (NSO) • Represented the school in Inter-District Hockey and Table Tennis tournaments
Miscellaneous	• Won the Vodafone's Faster Smarter Better Challenge 2012 and 2014 in Navi Mumbai • Finalist of the personality contest at Cascade 2014, one of the biggest inter-school fests in Mumbai