

THIRD YEAR UNDERGRADUATI

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 that would communicate with CouchBase and Ethereum using asyncio, uvloop & ØMQ to manage assets

Encoro Solutions Pyt. Ltd.

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.

• 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

BLOCKCHAIN RESEARCH INTERN

Pay-No-Load: A Plugin for the Aleth.io Ethereum Lite-Explorer [Code]

Hobby Project

Dec. 2018

BEYOND BLOCKCHAIN HACKATHON, GITCOIN

- · Created a plugin for the Aleth.io Lite Explorer to primarily decode Ethereum transaction payloads using the corresponding contract ABIs
- · Incorporated additional functionalities to display metadata about token contracts and all token balances of a given Ethereum account

Waffle-CLI: An Explorer for Ethereum [Code]

Hobby Project

BEYOND BLOCKCHAIN HACKATHON, GITCOIN

Jul 2019

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 Regression, Principle Component Analysis (PCA), Independent Component Analysis (ICA), Spectral Clustering, different Distance Metrics, Convolutional Neural Networks (CNNs) and Long-Short Term Memory (LSTM) Neural Networks.
- · Completed the Machine Learning Specialization (a set of 4 courses) offered by the University of Washington on Coursera

Decentalized Application for Land Registration [Code]

Hobby Project

- · Developed a Decentralized Application (DApp) for land registration and collateralization for borrowing/lending using the APIs of Lendroid
- Successfully deployed 4 smart contracts to implement the above functionality on Ethereum's Kovan Testnet as the Proof of Concept

- Built an Android application that could be used to determine the Air Quality of a city in terms of parameters such as NO₂, SO₂, CO, O₃ 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

Achievements

Present	Department Rank 1, Mechanical Engineering Department, IIT Bombay	IIT Bombay
Jul 2019	1st Place, Aleth.io Lite Explorer Freestyle Track, Gitcoin Beyond Blockchain Hackathon	Online
Jul 2019	2nd Place, Aleth.io API Freestyle Track, Gitcoin Beyond Blockchain Hackathon	Online
2018-19	Special Mention, Hostel 3 Technical Awards	IIT Bombay
Aug 2018	Top Hack Prize, Lendroid track, ETHIndia Hackathon	Bengaluru
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 IIT Bombay

BLOCKCHAIN@IITB CIRCLE, THE WEB AND CODING CLUB

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 IIT Bombay

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

Apr 2018 - Mar 2019

- 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

IIT Bombay

THE ENTREPRENEURSHIP CELL [WEBSITE]

Mar 2018 - Feb 2019

- · 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 IIT Bombay

MECHANICAL ENGINEERING DEPARTMENT [WEBSITE]

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, MATLAB, Solidity

Development Django, TensorFlow, Keras, Graphlab Create, , SQL, Jekyll Node.JS, AngularJS, Ionic Framework

Software/Tools Git, JIRA, Octave, Truffle, Embark, EOSIO, ŁTFX, AutoCAD, SolidWorks, Photoshop, Premiere Pro, Arduino, AWS, CouchBase

Extracurricular Activity _____

Cultural Activities

- 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
- 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
- Won the Vodafone's Faster Smarter Better Challenge 2012 and 2014 in Navi Mumbai

Miscellaneous

- · Finalist of the personality contest at Cascade 2014, one of the biggest inter-school fests in Mumbai
- Designed a manually controlled car for XLR8 Competition, capable of negotiating obstacles on a designated track
- Mentored 5 students for Summer of Science 2019 in areas like cryptography, machine learning & blockchain