Alok S Jaiswal

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Education

National Institute of Technology Goa | 2016-2020
BTECH IN COMPUTER SCIENCE
- CGPA: 8.45

Sri Chaitanya Junior College Hydernagar, Hyderabad .
2014-2016
MPC | %: 97.2%

Chavara Higher Secondary School, Kondagaon | 2014
ICSE | %: 75%

Skills

Languages
- Python • C++ • C •MySQL
- Javascript • HTML/CSS

Blockchain Technology
- Ethereum • Solidity • Truffle

General
OS: Linux • Windows • KaliLinux
Databases: SQLite • MongoDB
IDEs: Eclipse • Vim • Remix
WEB: Nodejs • Express.js • Rest-APIs

Coursework

UNDERGRADUATE
Data Structures and Algorithms
Computer Networks
Introduction to Cryptography
Discrete Mathematics
Database Management Systems
Object Oriented Programming
Operating Systems
Theory of Computation

Extracurricular

- Event Organiser at Saavyas 2018 at NIT Goa

Hall of Fame

- **DLink** - Reported vulnerability in DIR-600M Firmware

Certifications

- IBM Blockchain Foundation for Developers
- Lucideus Certified Ethical Hacker

Experience

Siemens | Blockchain Developer Intern
May 2019 - July 2019 | Siemens,Goa
- Developed a Blockchain plateform and Implemented Distributed application(DApp).
- Developed a API service for the Blockchain Framework.
- Implemented POA(Proof of Authority) Consensus Algorithm in the Framework.

Research Papers

A NOVEL FRAMEWORK FOR PHARMACEUTICAL SUPPLY CHAIN MANAGEMENT USING DISTRIBUTED LEDGER AND SMART CONTRACTS
10TH ICCCNT 2019 (IIT KANPUR) | Jan 2019 – May 2019 | Published
- Created a Distributed plateform for a transparent trading of the medicines(drugs).
- Live tracking of quality and supply of drugs from manufacturer to end user and maintain Accountability.Publication accepted on 6th July 2019.

A Conceptual Framework for Trustworthy and Incentivized Trading of Food Grains using Distributed Ledger and Smart Contracts
IEEE INDICON 2019 | May 2019 – July 2019 | Published
- Created a Distributed Plateform to Eliminate intermediaries between farmers and customers.
- Used Ethereum Blockchain plateform to provide Trust and Transparency.

Projects

Offline Second Factor Authentication for ATM Transactions
Feb 2020 - Mar 2020
- I have designed and developed a offline challenge-response scheme using elliptical curve cryptography to authenticate the user(card holder) before proceeding with the transaction, this design provides same level of security as with authentication with OTP.

NITGChain May 2019 - Apr 2020
- Created a Blockchain For Institute in python from scratch.
- Designed and developed Proof of Reputation roundrobin approach consensus algorithm.

CHAIN OF THINGS Mar 2019 - Apr 2019
- Integrated IOT and Ethereum Blockchain
- Created a Pipeline:
$Sensor \rightleftharpoons Arduino \rightleftharpoons Blockchain\_API \rightleftharpoons Ethereum\_NODE \rightleftharpoons Network$

TRUSTWORTHY ENERGY AUCTIONING IN SMART GRID
Jan 2019 - Feb 2019
- Developed Smart Contracts in Solidity.
- Ensuring Trustworthy and accountable auctioning of energy.

POWER QUALITY DATA MANAGEMENT Nov 2018- Dec 2018
- Developed an API using Express.js and Web3.js
- Ensured Data Immutibility using Smart Contracts and Ethereum

PET PROJECTS
• Portfolio • SIC/XE Assembler • Weather App • Shappl_Project • POW(Proof of Work) mining implementaion • HOTEL MANAGEMENT SYSTEM