

Nikhil Kapu

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- **Northeastern University, Boston:** Graduate Cyber Security Student at Khoury College of Computer Sciences
- **Vellore Institute of Technology**
Bachelor of Technology in Computer Science with specialization in Data Analytics.
- Coursework: Design and Analysis of Algorithms, Calculus, Discrete Math, Optimization Techniques, OS, Soft Computing, Algorithms, Data Analytics, Computer Networks, Database Design, Operating Systems, Secure coding, ML, OOP, French, Legal Aspects of Business.

SKILLS SUMMARY

- **Languages:** Solidity, C++, Java, R, SQL, PHP, HTML/CSS, JavaScript, NodeJS, Python (Pandas, NumPy, Sci-Kit Learn)
- **Tools:** Eclipse, Android Studio, Microsoft Visual Studio, R Studio, GIT

RESEARCH EXPERIENCE

• Publications

- Nikhil Kapu, Prabha Selvaraj, Vijay Kumar and Burugari Anupama Namburi. "SECURED ELECTRONIC HEALTH LEDGER USING BLOCKCHAIN AS A SERVICE." **Journal of Critical Reviews** 7 (2020)(Scopus Journal), 2176-2185. doi:10.31838/jcr.07.6.341

EXPERIENCE

- **Ernst & Young Boston** *June 2022 – Aug-2022*
Cybersecurity Intern : (Not to be disclosed)
- **Blockchain Club, Vellore Institute of Technology-AP** *Jul 2019 – June 2021*
President :
 - Planning and Execution of Workshops and seminars: Led the core committee of Blockchain Club to design and execute events for 350+ club members.
 - Instructor: Guided participants in various workshops and seminars on topics- Hyperledger Fabric, coding a smart-contract in solidity, deploying the smart contract on an Ethereum test network, creating nodes on a blockchain network, Ethereum mining and transaction.
 - Fund Manager: Managed the club Fund of INR 50,000.
- **Bhuvanavijayamu Charitable Trust** *Aug 2017 – Aug-2021*
Part-time tutor : ◦ Taught computer basics to economically weaker children in rural areas around Hyderabad, India.
- **Vitopia Cultural Fest, Vellore Institute of Technology-AP** *Jan 2020 – Mar 2020*
Coordinator :
 - Supervised a team of 10+ Volunteers to ensure the student registrations were happening in a properly documented model.
 - Accountable for handling the cash for student registrations to 50+ events.
 - Implemented digital registrations to automate the manual process, which reduced the overall execution time and effort by 40%.
- **Stu-Riksha (Unestablished, Developmental stage)** *Oct 2018 – Apr 2019*
Co-Founder / Android Developer :
 - Led a team of 3 to develop an Android application to connect users to local Taxis. Developed using Android Studio and Firebase.
- **VTAPP Tech Fest** *Jan 2018 – Feb 2018*
 - **Event Coordinator :** Supervised a team to design and organize the Treasure Hunt event for University's technical fest.

ADDITIONAL EXPERIENCE AND AWARDS

- Won the internal round of Smart India Hackathon at VIT-AP, 2019.
- 3rd position in University Engineering Clinics Expo for *Automated Greenhouse project* at VIT-AP, 2017.
- **Top 5 %** in IIT-JEE Mains' 2017 (1.18 million candidates)
- Scored 103 in TOEFL(Test of English as a Foreign Language)
- Winner of finance hackathon for *Personal investment*
- *assistant project* at VIT, 2018

PROJECTS

- **Autonomous path generation using MLP Neural network :** Implemented ML solution for automatic path prediction. **Python, IOT**
- **Hospital Management System with Flask and MongoDB :** Web app to book appointments for a hospital visit. **Python(Flask), MongoDB**
- **Electronic Health Record (EHR) on Blockchain :** Deployed EHR on a custom Blockchain network. **JavaScript, Ganache**
- **Ethereum mining and transaction :** Implemented 2 Ethereum nodes. Mined wei on one and transferred to others.
- **Vertical moving bot :** Developed Python scripts for Raspberry Pi to control a 4000 kv BLDC motor for suction mechanism. **Python,C++**
- **Automated Farm System :** Led a team to automate IoT sensors with pump, bulb and fan to enhance plant growth. **Python, C++, Raspberry pi**
- **Automated Greenhouse :** Developed Arduino based scripts to automate greenhouse functionalities. **C++**

Certifications

- Scrum Foundation Professional Certificate (SFPC) - CertiProf
- Machine Learning by Stanford University - Coursera
- IBM Data Science Professional Certification - IBM
- Blockchain Specialisation by University at Buffalo & SUNY -Coursera
- Data Structures and Algorithms specialisation by UCSD - Coursera
- Android Development - Udemy
- MATLAB Onramp - MathWorks
- Intro to Python for Data Science Course - DataCamp
- Introduction to R - DataCamp