

Shashank R

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About Me

I'm an undergraduate Computer Science Engineering student at PES University, Bengaluru, I'll be graduating in June 2024. My core skills include programming languages like C, Python, Java, PHP and Solidity, also I have good amount of experience with MySQL, HTML and Flutter. I've done certification courses in Blockchain, Network and Information Security, Data Science and Machine Learning. I've worked as Blockchain Research Intern in ISFCR Lab PESU.

Education

PES University

Bengaluru, India

B.Tech in Computer Science Engineering

Aug 2020 - May 2024

- **CGPA:** 8.02
- **Courses:** Data Structures, Advanced Algorithm, Operating System, Computer Networks, Data Science and Machine Learning, Logic Gates and Computer Organisation and Architecture, DataBase Technologies.

Vidya Mandir Ind. PU College

Bengaluru, India

Pre University Of Karnataka

June 2018 - March 2020

- Graduated with Distinction
- **KCET Rank:**1774

Work Experience

PES University

Bengaluru, India

Research Intern

June 2022 - Aug 2022

- Collaborated with a three-person team to develop an algorithm for mutable Blockchain.
- Studied and analysed the research papers on other existing mutable Blockchain algorithms like Chameleon Hashing and so on.
- The same architecture was developed to test using Python Programming Language. Attributes of Identity Management was taken as a use case of mutable blockchain.
- **Skills Acquired:** Network Programming with Python, Studying and Analysing Research Papers, Report Writing .

University Projects

Development of Proof Of Stake Blockchain Network

ISFCR Lab, PES University

October 2022

- Proof Of Stake is a consensus algorithm that is used in Blockchain to validate the transactions committed in the network.
- We developed a blockchain software that make use of POS consensus algorithm. This software is now being used by our university to demonstrate the working of POS algorithm to students who have taken Blockchain as an elective.
- Socket Programming was the ground layer technology used to build the software. Streamlit, Python based framework was used to build the front-end of the software. JIRA was used to track the progress of the application.
- **Technical Skills:** Blockchain, Network Programming in Python, Streamlit, JIRA.
- **Soft Skills:** Teamwork, Software Engineering Principles, Presentation skills, Report writing.

Phishing Attack

PES University

April 2022

- Phishing is a type of social engineering attack to steal credentials from the users.
- Web development tools like HTML, CSS, Javascript, PHP and MySQL was used to create a few social media login pages like Instagram, Facebook.
- Python and Google Mail API was used for mass mailing the fraudulent links which opens the fake login page.
- The whole project was deployed on AWS Web Server to get a global URL for demonstration purpose.
- **Technical Skills:** Python, AWS Cloud Computing, API, PHP, MySQL and other Web Development Framework.
- **Soft Skills:** Leadership, Teamwork, Security Thinking.

Insurance Cost Predictor

IBM Skills Build

February 2022

- A Machine Learning application developed in favour of Insurance Companies.
- A customer basic details along with their Medical report will be fed as an input, analysing the medical report, it outputs a health score, which plays a vital role in the cost of Insurance Premium. Higher the score, lower the premium and vice-versa.
- This score along with other information of the customer, is used to predict the cost of the insurance premium.
- **Technical Skills:** Python, NumPy, Pandas, Scikit-learn, Seaborn.
- **Soft Skills:** Critical Thinking, Presentation Skills, Team Work.

Chatting Application

PES University

December 2021

- A peer to peer chatting application done using socket programming in Python.
- The messages sent across them are made highly secured by making use of Asymmetric Encryption and Digital Signatures. I also made use of Apache server to host this application in Local Area Network(LAN)
- **Technical Skills:** Python, RSA Encryption Algorithm, Digital Signature
- **Soft Skills:** Critical Thinking, Presentation Skills, Team Work.

Skills

Programming: C, C++, Java, Python (Pandas, NumPy, Scikit-learn, Seaborn, Socket etc.), PHP, HTML/CSS, JavaScript, MySQL.

Domain Skills: Blockchain, Cyber Security, Data Science and Machine Learning, Cryptography and Network Security.

Software Engineering: Agile, JIRA Administration, Product and Software Development Management, Automation and Manual Testing.

Soft Skills: Time Management, Teamwork, Leadership and Team Management, Problem-solving, Project Presentation.

Achievements

Nov-2022 **2nd Place**, Blockchain Hackathon

Oct-2022 **1st Place**, Software Engineering principles in Project Development

Apr-2022 **Elite-Silver**, Blockchain and its Applications NPTEL Exam

Interests

Malware Designing: I like to explore the security aspects of the Cyber World. Therefore I keep designing malware and test on my own PC and analyse how could I protect my PC getting infected from one of them.

App Development: I always had the gaming gene. I mostly play on my phone and most of them are of Puzzle Solving Category. I also have developed a simple Puzzle solving Android game using Flutter.

Finance / Trading: I do trading in Stock Market, Crypto currency and Bank Nifty Options. I'm still in a learning phase in this field and have a keen interest on learning these concepts.

Entrepreneurship: I have a plan to build my own FinTech Company. A digital platform for P2P lending and borrowing.

Body Fitness: I like athletic games. Running is one of my favourite game among them. Everyday, my morning starts with 4km of running and doing Yoga for 40 minutes.

Travelling: I am very passionate in exploring new places and peaks. I love to go for Adventurous Trekking. I have covered major treks from Karnataka, Kerala and Maharashtra, Kumaraparvatha being the toughest one. Still many more left to complete.

Languages

English Professional proficiency

Kannada Bilingual proficiency

Hindi Professional proficiency