Pritish Naik

Final year Masters [MTech] Student – Information Technology

Personal Data:

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Nationality	Indian

Academic Profile:

Aug 2019 – June 2021 Masters of Technology - Information Technology [Avg. CGPA - 7.8/10]
National Institute of Technology Karnataka, Surathkal, India [High. SGPA: 8.2/10]

July 2011 – May 2015 Bachelors of Technology - Information Technology [CGPA – 7.36/10]
Walchand College of Engineering, Sangli, India

May 2009 – Jun. 2011 Higher secondary education (XII Grade) [Grade - 85.33%]
Willingdon College, Sangli, India

Work Experience:

July 2020 – Sept 2020 Blockchain Research Intern at *Siemens Technology, India*

Business: Corporate Technology - Research in Digitization and Automation
Team: Digital Threads Portfolio of Intelligent Simulation Technologies Team

Responsibilities:
- Developed a Proof of Concept on "Blockchain Digital Thread for Tackling Counterfeits in Food and Beverages Supply Chain" project.
- Used Python - Flask framework for backend, ReactJS framework for frontend and Pub-Nub publish-subscribe network for communication.

Aug 2015 – Oct 2017 Software Engineer at *HSBC Technology, Pune, India*

Business: Retail banking and wealth management
Team: Middle East and North Africa Development Team

Responsibilities:
- Developed, integrated and tested software modules for Credit cards domain based on Vision Plus platform on IBM Z/OS mainframe.
- Developed data extraction programs to extract transaction, settlement and authorisation data for all active accounts in HSBC Lebanon in addition to reporting of malicious transactions data to a central triggering utility system.
- Experienced in agile and waterfall software development methodology

University Course Projects:

Jan 2020 – May 2020 *Exploring the exploits to attack the vulnerability in APT-GET [CVE-2019-3462]*
- Successfully implemented Denial of Service attack on Advanced Packaging Tool (apt) used in Linux.
- Successfully carried out MITM code injection attack using scapy and other networking tools.

Sept 2019 – Nov 2019 *Designing distributed database system for Forest Management System*
- Gained practical experience of designing a distributed DBMS
- Performed requirement gathering, EER designing, implementing relevant queries, normalisation up to 3NF
- Performed Fragmentation (primary and derived horizontal fragmentation, vertical fragmentation using Bond Energy Algorithm), physical data allocation and replication (Redundant All Beneficial Sites method).

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Sponsored Bachelor Thesis:

Jan 2015 – May 2015   Sponsored Research project at Earth System Science Organisation (ESSO)-Indian National Center for Ocean Information Services (INCOIS), Hyderabad

Thesis Title: *Performance analysis and parallelisation of interpolation methods used in pre-processing module of Hybrid Coordinate Ocean Model (HYCOM)*

Grade: Excellent (AA)

- Developed parallel algorithms for conversion of latitude-longitude grid fields into HYCOM grid by analysis of performance using computation and memory profiling tools.
- Conducted a comparative study of performance achieved by OpenMP parallelisation, Auto-parallelisation, Compiler optimisation techniques

Master Thesis (Ongoing):

Sep 2020 – June 2021   *Thesis Title:* *Tackling Cold chain and Counterfeits in COVID-19 Vaccine Distribution using Blockchain, RFID and IoT*

- Developing a Hyperledger Fabric based blockchain network as the backbone.
- Integrating IoT and RFID technologies with blockchain to maintain cold chain standards and prevent counterfeits respectively.

Co-curricular Activities:

July 2020 – July 2020   Participated in **International Summer School - Deep Dive into Blockchain** organised by University of Zurich, Switzerland.

Oct 2020 – Oct 2020   Participated in **Indian Dutch Cyber Security School 2020** - Internet of things and Critical Infrastructure.

Achievements and Skills:

Qualified Graduate Aptitude Test in Engineering (GATE) 2019 and secured 1619th rank out of 100,000 students appeared **(top 1.7%)**

SPOT recognition award received within 3 months of the commencement of my first project at HSBC Technology India [HTI], Pune.

Programming Skills:

Coursera MOOC:	Google's Crash Course on Python, Applied Social Network Analysis using Python, Google's Using Python to Interact with the Operating System, COVID19 Data Analysis Using Python.
Subjects:	Blockchain Technology, Distributed systems, Advanced Databases, Advanced Algorithms, Designing IoT, Cyber security.
Programming:	Python, C/C++, Cobol, FORTRAN
Web Development:	JavaScript, HTML, CSS
Web Technologies:	React, NodeJS, Flask
Databases:	IBM DB2 for Z/OS mainframe, Cassandra NoSQL
OS/Software Tools:	Linux (Ubuntu), Git
Language:	English: *Fluent*, Marathi: *Fluent*, Kannada: *Fluent*, Hindi: *Fluent,* German: *Elementary*

Sangli, 7th December 2020