Praveensankar M

M.Tech - Student

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BIO

I am a computer science researcher working on Blockchain and Security. I have completed M.Tech. in Computer Science and Engineering at the National Institute of Technology Puducherry, India and B.E. in Computer Science and Engineering at PSG College of Technology, Coimbatore, India. I have research experience in Blockchain, Named Data Networking and Lattice Cryptography. I have developed an e-bidding system on the hyperledger fabric blockchain network. I have developed an Intrusion Detection System for NDN based VANETs. I have developed an authenticated encryption scheme based on lattice cryptography. My research interests are in Blockchain, Cryptography, Lattice Cryptography and Network Security.

Area of Interest

- Blockchain
- Lattice Cryptography
- Network Security
- Cryptography

EDUCATION

M.Tech. - Computer Science and Engineering

National Institute of Technology Puducherry, Karaikal

July 2018 - June 2020

CGPA - 9.82 / 10 (Class Topper)

B.E. - Computer Science and Engineering

PSG College of Technology, Coimbatore

July 2012 - May 2016

CGPA - 7.69 / 10

PUBLICATIONS

Conference

1. P. Manimaran and A. R. K. P, "NDNIDS: An Intrusion Detection System for NDN Based VANET," *2020 IEEE 91st Vehicular Technology Conference (VTC2020-Spring)*, Antwerp, Belgium, 2020, pp. 1-5, doi: 10.1109/VTC2020-Spring48590.2020.9129365.

   https://ieeexplore.ieee.org/document/9129365

2. P. Manimaran and R. Dhanalakshmi, "Blockchain-Based Smart Contract for E-Bidding System," *2019 2nd International Conference on Intelligent Communication and Computational Techniques (ICCT)*, Jaipur, India, 2019, pp. 55-59.
   doi: 10.1109/ICCT46177.2019.8969042.
   https://ieeexplore.ieee.org/document/8969042

Book Chapter

1. Ravi, Chandrasekar and Praveensankar Manimaran. "Introduction of Blockchain and Usage of Blockchain in Internet of Things." *Transforming Businesses With Bitcoin Mining and Blockchain Applications*. IGI Global, 2020. 1-15. Web. 18 Oct. 2019. doi:10.4018/978-1-7998-0186-3.ch001

   https://www.igi-global.com/chapter/introduction-of-blockchain-and-usage-of-blockchain-in-internet-of-things/238356

EXPERIENCE

Summer Research Intern

National Institute of Technology Calicut, Kozhikode

May 2019 - July 2019

- Studied about Software Defined Networking and experimented mininet simulator
- Studied the architecture of the Named Data Networking and usage of NDN in VANET
- Designed and developed Intrusion Detection System for NDN Based VANET

Software Engineer

Accolite Software India Pvt. Ltd., Bangalore

July 2016 - March 2017

- Worked on the web development
- Language - C#, Javascript, Web framework - ASP.NET MVC, backend technology - ASP.NET, frontend technology - Jquery and AngularJS, database - Microsoft SQL Server
- Developed POC application for IT Resource Management

- Worked on web development for British Telecommunications through Accolite

Software Engineer Intern

Accolite Software India Pvt. Ltd., Bangalore

January 2016 - April 2016

- Worked on the web development
- Language - C#, Javascript, Web framework - ASP.NET MVC, backend technology - ASP.NET, frontend technology - Jquery and AngularJS, database - Microsoft SQL Server
- Learned about web development in general and studied ASP.NET and Basic javascript for developing websites
- Studied about 3 Layer architecture in ASP.NET

Projects

Android Application for alarm system

PSG College of Technology, Coimbatore

June 2015 - October 2015

- In this application to stop the alarm, the user has to solve either a mathematical puzzle or a logical puzzle or count the number of objects in the image or click the given color in the grid of colors. These functionalities are provided along with traditional alarm functionalities
- Github : https://github.com/praveensankar/Alarm-App

Face Recognition system using Principal Component Analysis

PSG College of Technology, Coimbatore

June 2014 - October 2014

- To detect and recognize an image from a predefined collection of images using the eigenface-based facial recognition
- Github : https://github.com/praveensankar/face_recognition

Teaching

1 . Teaching Assistant - CS609 Network Programming Lab

National Institute of Technology Puducherry, Karaikal

August 2019 - November 2019

2 . Teaching Assistant - CS102 Basics of Programming Lab

National Institute of Technology Puducherry, Karaikal

January 2019 - April 2019

SKILLS

Programming Languages : C, Python, SQL

Operating Systems : Ubuntu, Windows

Frameworks : Django

Tools : Latex

Achievements

- Scored 96.03 Percentile in Computer Science, GATE 2018
- Scored 98.02% in HSC exam, 2012
- Scored Centum in Computer Science, HSC exam, 2012
- Scored 97.80% in SSLC exam, 2010
- Scored Centum in Maths and Science, SSLC exam, 2010

References

1. Dr. G. Aghila, Professor in the Department of Computer Science and Engineering at the National Institute of Technology Puducherry, India. **Email**: aghila@nitpy.ac.in
2. Dr. R. Dhanalakshmi, Associate Professor in the Department of Computer Science and Engineering at the Indian Institute of Information Technology Tiruchirapalli, India. **Email:** dhanalakshmiparthiban@gmail.com
3. Dr. P. Arun Raj Kumar, Assistant Professor in the Department of Computer Science and Engineering at the National Institute of Technology Calicut, India. **Email:** park@nitc.ac.in