

Nirmal Thomas

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EDUCATION

- **College of Engineering Trivandrum** Trivandrum, India
Bachelor of Engineering in Computer Science and Engineering; GPA: 9.73/10.0 Aug. 2015 – July. 2019
- **Vidya Vikas Academy - Higher Secondary** Goa, India
AISSCE (Computer Science); Percentage: 95.6 June. 2013 – June. 2015
- **The King's School** Goa, India
AISSE ; Percentage: 91.2 June. 2012 – June. 2013

EXPERIENCE

- **FOSS CELL CET** Trivandrum, India
Technical Coordinator Nov 2016 - Present
 - : Responsible for hosting Technical events as part of FOSS CELL CET. Problem Setter/Moderator for Coding Competitions hosted by FOSS CELL CET
- **Drishti - Technical Fest** Trivandrum, India
Event Coordinator March 2017
 - **Game of Codes 1.0**: Problem Setter Official Online Coding Contest Drishti 2017 (Hosted on Hackerrank)
 - **Game of Codes 2.0**: Problem Setter Official Online Coding Contest Drishti 2018 (Hosted on Hackerrank)
 - **Espirit De Corps**: Event Coordinator Official Coding Contest Drishti 2017
 - **The Black Box**: Event Coordinator Official Reverse Coding Event Drishti 2017
 - **The Exterminator**: Event Coordinator Official Debugging Competition Drishti 2017
 - **Espirit De Corps**: Event Coordinator Official Coding Contest Drishti 2017
 - **CodeMaster**: Problem Setter Official Coding Contest Drishti 2018
 - **The Debugger**: Problem Setter Official Debugging Contest Drishti 2018
- **IEEE Computer Society India Symposium** Trivandrum, India
Publicity and Registration Volunteer January 2016
- **Research Winter School 2018 - National Ilan University** Taiwan
Work with Professors at NIU on published Research Papers March 2018
- **Research Intern - Department of Computer Science, IIT Madras** Chennai
Research in the field of Combinatorics and Algorithm Development May - July 2018

PROGRAMMING SKILLS

- **Languages**
C, C++, Python
- **Additional Skills**
Data Structures, Competitive Coding, Machine Learning, Deep Learning, Algorithmic Trading

PROJECTS

- **Image Multi-Secret Sharing Scheme**: Implemented an Image Multi-Secret Sharing Scheme to encrypt an image into a required number of shadow images and then decrypt back the original image only if a certain number of the shadow images are available for decryption
- **Image Captioning using LSTM RNN**: A basic Image Captioning Model trained using LSTM Recurrent Neural Networks
- **Two Pass One Pass Assembler for SIC**: Assembler which converts Source Code in SIC Instruction Format to Machine Language Compatible with SIC Machines
- **Room Purification System (PyQT Application)**: Developed the backend of a PyQt Application (Room Purification System)
- **API Integrations for Algorithmic Trading Portal**: Implemented APIs for various charts, trading strategies required for an Algorithmic Trading Portal

ACHIEVEMENTS

- **Cult A Way SCT** Trivandrum, India
1st Place Official Coding Competition Cult A Way (SCT Technical Fest) March 2017
- **Daksha College of Engineering Attingal** Trivandrum, India
1st Place Official Coding Competition Daksha (College of Engineering Attingal Tech Fest) February 2017
- **National Programming Aptitude Test (NPAT)** NPTEL
800/800 (94%) in National Programming Aptitude Test organized by NPTEL August 2017
- **Dhishna CUSAT** Kochi, India
1st Place at Official Coding Competition Dhishna (CUSAT) October 2017
- **Rajiv Gandhi Institute of Technology** Kottayam, India
1st Place Official Coding Competition January 2018
- **IEEE All Kerala Computer Society Student Congress** IEEE Computer Society
1st Place at Official Coding Competition Pre-Xtreme IEEE AKCSSC 2017 October 2017
- **Semester 4 University Examination** Trivandrum, India
Obtained 10/10 SGPA Semester 4 University Examinations May-June 2017
- **CodeChef Certified Data Structures and Algorithms Program - Foundation Level** Codechef
CCDSAP Foundation Level Certified with Score of 750/750 March 2018

COURSES

- **Machine Learning** Coursera
Training on Various Machine Learning Algorithms and its Implementation Online
- **Introduction to Data Science using Python** Coursera
Training on basic Data Cleaning Techniques and its implementation using Pandas and NumPy Online
- **CS231n: Convolutional Neural Networks for Visual Recognition** Official Course Website
Application of Deep Learning Algorithms and Techniques in the field of Computer Vision Online
- **Algorithm Design and Analysis - Part 1** Coursera
Algorithm Complexity, Divide and Conquer Algorithms, Sorting and Searching Algorithms Online
- **Java**
Training on basics of Java programming, Swings, AWT events, handling events, building GUI applications, Graphics

PROFESSIONAL MEMBERSHIPS

- **IEEE Computer Society** Student Branch CET (2015 - Present)
Handled various weekly sessions of IEEE Computer Society SBCET India
- **IET** Student Branch CET (2015 - Present)
Attended various workshops hosted by IET CET India

LANGUAGES

- **English**
Professional Proficiency
- **Malayalam**
Native or Bilingual Proficiency
- **Hindi**
Full Working Proficiency
- **Tamil**
Limited Proficiency