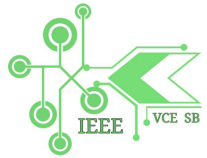
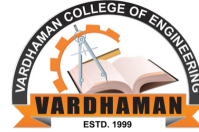


# VOLUME 3, ISSUE 1

# MARCH 2020



# CS WORLD



## ABOUT IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)

IEEE, an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic, computing fields and related areas of science and technology that underlie modern civilization. IEEE's roots go back to 1884 when electricity began to become a major influence in society. There was one major established electrical industry, the telegraph, which since the 1840's had come to connect the world with a data communications system faster than the speed of transportation. The telephone and electric power and light industries had just gotten underway.



It is my great pleasure and honor to be part of IEEE Computer Society Committee. We made a reasonable progress by promoting various activities for supporting active researchers and engineers. We are trying our level best and with our persistent efforts in nurturing future engineers and researchers, improving the status and their International contribution. Our basic aim is to further develop our activities to improve the career development of students. I sincerely hope all of you involve with commitment and improve.

- Dr. S. Sai Satyanarayana  
Reddy  
Principal

## ABOUT IEEE CS (COMPUTER SOCIETY)

IEEE Computer Society is the leading provider of technical information, community services and personalized services to the world's computing and computer science professionals. IEEE Computer Society strives to be essential to the global technical community and computer professionals everywhere and be universally recognized for the contributions of technical professionals in researching, developing, and applying technology to improve global conditions. The Computer Society serves the information and career-development needs of today's computing researchers and professionals with books, conferences, conference publications, magazines, online courses, software development certifications, standards and technical journals. Known worldwide for its computer-standards activities, the Computer Society promotes an active exchange of ideas and technological innovation among members and technology companies producing today's innovative products and services. Teaching more than 100,000 science and technology professionals, the computer society is the largest of IEEE's 38 societies.



The IEEE Computer Society student branch is positioned to create the technological leader of tomorrow. Our goal is to ensure that our engineering graduates are well prepared to play the roles of problem solvers, project leaders, entrepreneurs, innovators, data scientists and above all ethical citizens of a global society. Our aim is to provide professional grooming and guidance so that our students mould into thorough and inspiring individuals when they enter into the real-time environment.

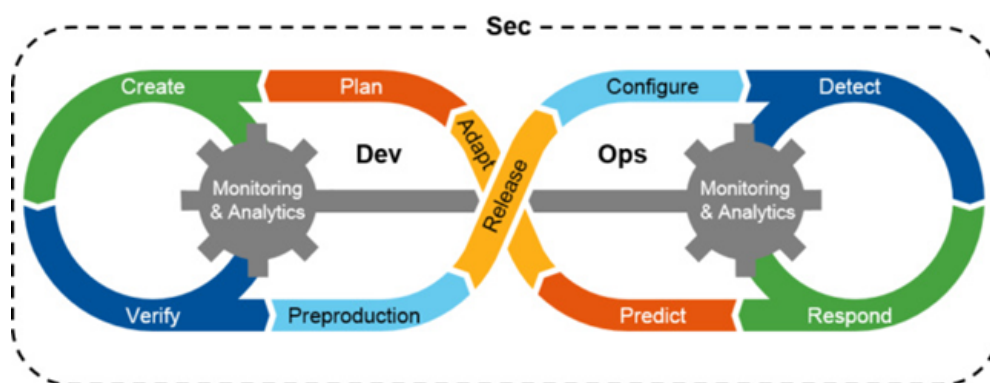
- Dr. A. Rajanikanth,  
HOD, CSE

# DEV-SEC-OPS

DevSecOps - everyone in the software development life cycle is responsible for security, for bringing operations and development together with security functions. It aims to embed security in every part of the development process. DevOps has become second nature for agile, high-performing enterprises and a foundation for the success of their online business. Continuous change in technology and consumer demand means there is a continuous cycle of updates to run that will keep a very varied set of functions from page upload times to shopping and search features up to date and running at their best. However, application security was mostly an afterthought, and at times perceived as a roadblock to staying ahead of the competition. Given the reliance of applications to keep operations running, bypassing security must be considered a high-risk strategy -- a distributed or permanent denial of service attack could easily catch you out. You just need to look at the implications of failing to update the Apache Struts framework as suffered by Equifax. The DevSecOps movement is designed to change this.

## BENEFITS OF DEV-SEC-OPS

More automation from the start reduces the chance of misadministration and mistakes, which often leads to downtime or attacks. This automation also reduces the need for security architects to manually configure security consoles.



- M. Pranay Kashyap  
IEEE CS Secretary



It is my great honor to be part of IEEE. Diversity is an important and valued strength; IEEE is committed to the realization and maintenance of an environment in which scientists and engineers, regardless of ethnicity, religion, gender, or nationality, have the right to pursue their careers without discrimination. Science, engineering - and humanity - prosper where there is freedom of movement, association, and communication.

- Dr. K. Mallikharjuna  
Babu  
Director & CEO, VCE.

# INTERNET OF THINGS



## WHAT IS IOT?

The Internet of Things, or IoT, refers to the billions of physical devices around the world that are now connected to the internet, all collecting and sharing data. Needless to say that the current hype around the Internet of Things (IoT) is huge. The Internet of Things is making the fabric of the world around us more smarter and more responsive, merging the digital and physical universes.

## SMART FARMING USING IOT

Smart farming is an often overlooked business-case for the internet of Things because it does not really fit into the well-known categories such as health, mobility, or industrial. However, due to the remoteness of farming operations and the large number of livestock that could be monitored the Internet of Things could revolutionize the way farmers work. Smart farming will become the important application field in the predominantly agricultural-product exporting countries.

G. Niharika  
IEEE CS Chief-Editor



It is a great honor and pride to be a part of IEEE Vardhaman Student Branch. IEEE is one of the largest international professional organizations dedicated to promoting engineers and scientists and inspiring youths around the world to follow their academic interests to a career in engineering. Upcoming engineers tell of the trials and triumphs of lives dedicated to advancing technology for humanity. Future engineers can help in reducing poverty, development of the country and it can provide a better chance for next generation. I congratulate students and faculty members for starting IEEE Student Branch, Vardhaman College of Engineering. I hope this Student branch will strive for the development of upcoming engineers.

- Dr. M.A. Jabbar,  
Student Branch Advisor



# COMMITTEE

- Dr. K. Mallikharjuna Babu - Chief Patron
- Dr. S. Sai Satyanarayana Reddy - Patron
- Dr. A. Rajanikanth - IEEE CS Faculty Advisor
- Dr. M. A. Jabbar - IEEE Student Branch Advisor
- M. D. N. Akash - Chair, IEEE CS VCE SB
- M. Pranay Kashyap - Secretary, IEEE CS VCE SB
- V. Tejesh - Vice Chair, IEEE CS VCE SB
- P. Indu - Joint Secretary, IEEE CS VCE SB
- Nissy Carolin - Treasurer, IEEE CS VCE SB
- G. Niharika - Chief Editor, IEEE CS VCE SB

I believe professionals in technology fields should join IEEE to help themselves and the community. With competition for the best jobs increasing every year, companies value employees who have relationships with the local community and hone their technical skills outside of work hours. It is also important to understand how protocols and frameworks are utilized to develop, maintain, and test electronic/IT systems. IEEE members are uniquely positioned to provide the innovative solutions needed in technical industries going forward. In addition to the human networks that can be tapped for advice or assistance, there are many web resources with special access just for members.

-M. PRANAY KASHYAP  
Secretary, IEEE CS VCE SB



It is a privilege to be a part of IEEE COMPUTER SOCIETY as a vice chair and I am happy to explore new things. This is a huge space where IEEE CS CHAPTER members can learn new things and explore their skills and are exposed to many scenarios where I learned valuable lessons. IEEE members are uniquely positioned to provide the innovative solutions needed in technical industries going forward. I want to thank Vardhaman College of Engineering for providing this opportunity to me.

-V. TEJESH  
Vice - Chair,  
IEEE CS VCE SB



I am really delighted to be a part of the IEEE Computer Society. It has provided me various opportunities to explore and improve many skills. I feel that IEEE is an organization where we can build on our networking, management skills and shape our career.

-G. NIHARIKA  
Chief Editor, IEEE CS  
VCE SB



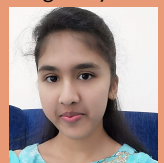
It's my honor to be associated with the IEEE Computer Society as a Chair of the Vardhaman Student Branch. AHCSSC'19 was my first volunteer experience. I was acted as a host for AHCSSC'19 held at Vardhaman College of Engineering. It was a wonderful journey with IEEE. I improved my network, skills, confidence, and experience by participating as well as by organizing various events with IEEE VCE SB. This is a unique platform for shaping our careers in the right way. I believe networking is better than net worth.

-M.D.N. AKASH  
Chair, IEEE CS VCE SB



IEEE has given me a good chance to improve my management skills. I was exposed to many scenarios where I learned valuable lessons including soft skills, networking, and above all, a circle of relevant professionals with whom I connect almost every day. IEEE has given me a chance to serve for the students and professionals around the Asia Pacific Region. It has given me a platform from where I can help others through my skills.

-P. INDU  
Joint Secretary,  
IEEE CS VCE SB



People talk about job security. No one can give you that. Job security depends on the company. What IEEE can do - and I use the phrase carefully - is offer security. You can be the most valuable engineer by being current in technology and by networking with others. If you take advantage of the products and services that IEEE offers, you will become the most valuable engineer in your organization. And if your job goes away, you'll have no trouble finding another.

-NISSY CAROLIN  
Treasurer,  
IEEE CS VCE SB

