JAYNEEL VORA

PhD in CS Student at UC Davis.

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EDUCATION

University of California, Davis   Sep 2019-
PhD in Computer Science: Advised by Dr Prasant Mohapatra
Institute Of Technology, Nirma University   Aug 2015- May 2019
B.Tech. in Computer Engineering: CGPA 7.74/10.

INTERNSHIP EXPERIENCE:

Tech Intern; **Sentinel Healthcare**, USA.   May-Jul 2017
Intern, AI and Human-Computer Interaction, **BrünHealth**, India   May-Jul 2018
Remote Intern, Blockchain, **TurboClinic**, San Francisco, USA   Jul-Aug 2018
Remote Intern, AI and Human-Computer Interface,**BrünHealth**, India   Sep-Nov 2018
Intern, AI and Human-Computer Interaction, **BrünHealth**, India   Jan-May 2019

OBSERVERSHIPS

Swedish Medical Centre, Seattle, USA   Jul 2017
Shadowing the Stroke director, experienced a clot removal surgery, occupational therapists, stroke patients.
Johnson City Medical Hospital, TN, USA   Jul 2017
Shadowing paediatric neurologist, occupational and physical therapists, radiologists.
Oasis Pavilion, Arizona, USA   Jul 2017
Shadowing medical in charge, occupational therapists, working of a care-home.
Institute Of Science, Nirma University   Sep 2017
Shadowing a Doctoral student on the process of karyotyping.
Unipath Laboratory, Ahmedabad, India   Oct 2017
Shadowing lab technician on using Karyotyping software.

AWARDS

1. Best Paper Award,2019 IEEE ICC Workshops: SecSDN: Secure and Dependable Software Defined Networking for Sustainable Smart Communities- May'19.
2. Travel Grant, IEEE GLOBECOMM'18, **Globecom Executive Chair Grants**- Dec'18
3. Travel Grant, IEEE SS12:: IEEE Gujarat Section- Sep'18
4. Felicitated, Nirma University Foundation Day for extensive research in Computer Networks.

RESEARCH EXPERIENCE

1. Graduate Student Researcher, Networks Lab, UC Davis   Sep 2019-
2. Undergrad Researcher, Sudeep Tanwar Lab   Jan 2017- Dec 2018
3. Undergrad Researcher- Spring Intern, Shanmuganathan Lab, IIT- Gandhinagar, India   Jan-Mar 2017

TEACHING

1. Lead Teaching Assistant, ECS 20 Discrete Mathematics   Spring 2020
2. Lead Teaching Assistant, ECS 20 Discrete Mathematics link   Winter 2020

PROJECTS UNDERTAKEN

Consensus using WiFi Channel State information	Oct 2019-
Heart Rate Detection using 60Ghz rays	Sep 2019-
Identifying the effect of Hindu Prayers on the Human Brain Waves	Aug-Nov 2018
Private Cloud Implementation	Feb-Apr 2017
Automatic Karyotyping Software	Sep- Jan 2019
Hypertensive Retinopathy	Oct- Dec 2017
Traffic Light Manipulation For Emergency Services	Sep 2017 - Dec 2019

IEEE INVOLVEMENTS

Team Member, IEEE Technenergize'18 IEEE Kolkata.
Team Lead, IEEE Technergize'19 IEEE India Council
Selected for Final Round, IEEE SS12'18 Sri Lanka

MOOCs

Coursera: Vital Signs: Understanding What the Body Is Telling Us. (April 2019) link
Coursera: Writing For Sciences- Stanford (November 2018) link
Coursera: Machine Learning- Stanford (November 2016)link
Specialization: Coursera: Introduction to Data Science link
    a. Coursera: Databases and SQL for Data Science(December 2018) link
    b. Coursera: What is Data Science?-IBM (October 2018) link
    c. Coursera: Open Source Tools For Data Science-IBM (November 2018) link
    d. Coursera: Data Science Methodology (November 2018) link
NPTEL: Introduction To Machine Learning- IIT Kharagpur link
NPTEL: Introduction To Cryptology- IIT Roorkee link
NPTEL: Introduction to Mobile App Development- IIT Madras link

CAMPUS INVOLVEMENTS

Club Captain, **MozillaNirma**(2017) blog
Event Coordinator, **Entrepreneurship Cell**, Nirma University(2016-18)
Event Coordinator, Computer Society Of India, Nirma Chapter(2015-17)
Event Coordinator, Indian Society Of Technical Education, Nirma Chapter(2015-17)
Member, **IEEE SB**, Nirma University(2017-19)
Student Placement Coordinator(2017-19)
Committee Member, Anti Ragging Committee(2017-19)

INVITED TALKS AND WORKSHOPS

Mentor of Change, Atal Tinkering Labs, NITI AYOG, Government of India. (April 2019-)
Guest Speaker, "*Research Methodologies in the Field of Image Processing*", addressed M.Tech-CSE students at Nirma University, India on 3rd April 2017.

REFERENCES

Dr Prasant Mohapatra
 Vice Chancellor- Research, University of California- Davis - pmohaptara@ucdavis.edu
Dr Prashant Jha
Fellowship Director, School of International Biodesign, Delhi- drpjha@biodesign.school
Mr Ravi Pamnani
Founder and CEO, Intact Therapeutics ravip@alumni.stanford.edu
Dr Nirav Shah
 CEO, Sentinel Healthcare,, Seattle.- nirav.shah@sentinel.healthcare
Dr Sudeep Tanwar
Associate Professor, Nirma University, India:- sudeep.tanwar@nirmauni.ac.in

PEER-REVIEWED JOURNALS:

Vora J, Kaneriya S, Tanwar S, Tyagi S, Kumar N, Obaidat M, "TILAA: Tactile Internet-based Ambient Assisted Living in Fog Environment", Future Generation Computer Systems, Elsevier(**Accepted, Impact Factor:4.639**) link

S. Tanwar, **Vora J.**, S. Kaneriya, S. Tyagi, N. Kumar, V. Sharma, I.You, "Human Arthritis Analysis in Fog Computing Environment using Bayesian Network Classifier and Thread Protocol", **IEEE Consumer Electronics Magazine**, In press, 2018.(SCI, Impact Factor: **1.153**)

S. Tanwar, **Vora J.**, S. Tyagi, N. Kumar, and M.S. Obaidat"A Systematic Review on Security Issues in VANET", **Security and Privacy Journal**, Wiley, (Peer Reviewed Journal of John Wiley & Sons Ltd) link

INTERNATIONAL CONFERENCES:

Tanwar S, **Vora J,** Kaneriya S & Tyagi S, "Fog based Enhanced Safety Management System for Miners", 3rd International Conference on Advances in Computing, Communication & Automation, (ICACCA-2017), Tula Institute, Dehradun, UA. (**Presented, and Indexed in IEEE-Xplore, SCOPUS**) link

M. Gor, **Vora J**, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & B. Sadoun, "GATA: GPS-Arduino Based Tracking and Alarm System for Protection of Wildlife Animals", International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2017), Dalian University, Dalian, China, 21-23 July 2017, pp. 166-170. (**Indexed in IEEE-Xplore, SCOPUS**) link

Vora J, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C, "FAAL: Fog Computing- based Patient Monitoring System for Ambient Assisted Living", IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom-2017), Dalian University, Dalian, China, 12-15 October 2017, pp. 106.(**Indexed in IEEE-Xplore, SCOPUS**) link

Vora J, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C, "Home-based Exercise System for Patients Using IoT Enabled Smart Speaker", IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom-2017), Dalian University, Dalian, China, 12-15 October 2017, pp. 1-6.(**Indexed in IEEE-Xplore, SCOPUS**) link

Vora J, Kaneriya S, Tanwar S, Tyagi S, "Performance Evaluation of SDN based Virtualization for Data Center Networks", IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), BIAS,Bhimtal, Nainital, Uttarakhand, India, 23-24 February, 2018 (**Presented and Indexed in IEEE-Xplore**)link

Vora J, Patel M, Tanwar S, Tyagi S, "Image Processing Based Analysis of Cracks on Vertical Walls", IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), BIAS,Bhimtal, Nainital, Uttarakhand, India, 23-24 February, 2018 (**Presented and Indexed in IEEE-Xplore**) link

Patni N, Shah P, **Vora J**, Shah V,"Automation of process evaluation of Saccharification of wheat starch followed by fermentation of glucose to prepare Bioethanol using Digital Image Processing","Information and Communication Technology for Intelligent Systems", ICTIS 2018, Ahmedabad,India(**Presented, to be indexed on SpringerLink, SCOPUS)** link

Vora J, Devmurari P, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & B. Sadoun, "Blind Signatures Based Secured E-Healthcare System", International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2018), Colmar, France, 10 July 2018(**Indexed in IEEE Xplore, SCOPUS**) link

Vora J, Italiya P, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & Kuei-Fang Hsiao,"Ensuring Privacy and Security in E-Health Records", at International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2018), Colmar, France, 10 July 2018(**Indexed in IEEE Xplore,SCOPUS**) link

Vora J, S Tanwar, S Tyagi, N Kumar, M.S. Obaidat and Joel J P C Rodrigues,"BHEEM: A Blockchain-based Framework for Efficient Storage and Maintenance of Electronic Health Records", IEEE Global Communications Conference (IEEE GLOBECOM-2018), Abu Dhabi, UAE, 09-13th Dec 2018, pp. 1-6. (**presented,indexed in IEEE- Xplore**) link

Vora J, Vekaria D, Tanwar S, Tyagi S, "Machine Learning-based Voltage Dip Measurement of Smart Energy Meter" at 5th International Conference on Parallel and Distributed Computing (PDGC-2018) from 20-22 December 2018 at Jaypee University of Information Technology, Waknaghat, Solan, HP, INDIA(**Indexed in IEEE Xplore**) **link**

Vora J, PK Singh, Zdzislaw P, Tanwar S, Tyagi S and Singh Y, "Machine Learning-based Software Effort Estimation: An Analysis"," 11th International Conference on Electronics, Computers and Artificial Intelligence – ECAI'2019", 27-29 June 2019, Pitesti - ROMANIA(**Accepted, to be indexed in IEEE-Xplore**)

Kaneriya S, **Vora J**, Tanwar S, Tyagi S,"Standardising the use of Duplex Channels in {5G-WiFi} Networking for Ambient Assisted Living", "019 IEEE International Conference on Communications Workshops (ICC Workshops): SecSDN: Secure and Dependable Software Defined Networking for Sustainable Smart Communities (ICC 2019 Workshop - SecSDN)", 20-24 May 2019, Shanghai, China (**BEST PAPER AWARD, indexed in IEEE- Xplore**) link

Vora J, Kaneriya S, Shah P, "Real-time Health and Medical Monitoring System Using Accelerometer with Body Area Network", 2nd International Conference on Communication and Computational Technologies (ICCCT-2019), Jaipur, India, 30-31 August 2019 (Will be published in **Algorithms for Intelligent Systems (AIS)-Springer**)

Vora J, S Tanwar, S Tyagi, N Kumar and Joel J P C Rodrigues, "HRIDaaY: Ballistocardiogram-based Heart Rate Monitoring Using Fog Computing", IEEE Global Communications Conference (IEEE GLOBECOM-2019), Hawaii, USA, 9-13 Dec 2019, pp. 1-6. (**Will be Indexed in IEEE-Xplore as well as in SCOPUS**)