JAYNEEL RIPAL VORA

University Of California, Davis

CONTACT	jrvora@ucdavis.edu LinkedIn	ı:jayneelv68 www.j	ayneelvora.com
RESEARCH INTERESTS	Differential Privacy, System Design, Wireless Communications, Networks, Security, Machine Learning, VANETs		
EDUCATION	University of California, Davis Doctorate of Philosophy (Ph.D.) in Computer Science		Sep'19-Ongoing
	Advisor: Prasant Mohapatra Institute of Technology, Nirma University Bachelors in Technology(B.Tech) in Computer Engineering		Jul'15-May'19
	Advisor: Dr Sudeep Tanwar Major Project: AI-Assisted Maternal and Chile		
RESEARCH EXPERIENCE/	Institute of Pure and Applied Mathemati Graduate Research Fellow for 'Mathe	cs, UCLA matical Challenges and Opportunit	Sep-Dec'20
GRADUATE FELLOWSHIPS	Autonomous Vehicles' Graduate Student Researcher, Lawrence Berkeley National Laboratory • Advisor: Dr Sean Peisert		Jun '20- Sep '20
	 Working on: Differential Privacy for I Graduate Student Researcher, Networks Worked on: Standardising a metric for 	Lab, UC Davis	Sep '19-Jun '20
	 Undergrad Researcher, Nirma University Designed and developed systems for A 	y Ambient Assisted Living	Jan '17- Dec '18
	 Undergrad Researcher - Spring Intern, I Worked on designing the workflow for 		Jan '17 -Mar '17
INDUSTRY INTERNSHIPS	 BrunHealth Pvt. Ltd, New Delhi, India Mentors: Dr Prashant Jha, Prateek Saraswat and Manisha Laroia Designed a keyword analyzer and message-topic matcher. Designed a recommendation system for personalized messages, mimicking the Quartz chat app. 		Jan-Apr'19
	 BrunHealth Pvt. Ltd, New Delhi, India Mentors: Dr Prashant Jha, Prateek Saraswat ar Designed a human interaction model Developed a command-line impleme Deployed the bot on the FB page and feet 	for expecting mothers ntation of the bot.	May-Jul'18 Sep-Nov'18
	 Sentinel Healthcare, Seattle, USA Mentors: Dr Nirav Shah, Dr Jorge Sanchez and Observed doctors and therapists under hospitals, clinics and care homes. Designed and developed a gait-analy tried out at an outpatient clinic. 	erstanding the workflow in	May-Jul'17
OBSERVERSHIPS	Swedish Medical Centre, Seattle, USA Shadowed the Stroke director, experienced a clot removal surgery, observ occupational therapists and stroke patients.		Jul '17 rved
	Johnson City Medical Hospital, TN, USA Shadowed a paediatric neurologist, an		Jul '17 ists and
	radiologists. Oasis Pavilion, Arizona, USA Shadowed the medical in charge, occupational therapists and the work		Jul '17 ng of a
	care-home. Institute Of Science, Nirma University Shadowed a Doctoral student on the p	process of karyotyping.	Sep '17
	Unipath Laboratory, Ahmedabad, India Shadowed the lab technician on using		Oct '17
AWARDS	 □ Graduate Group of Computer Science Fel □ Best Paper Award,2019 IEEE ICC Worksh □ Travel Grant, IEEE GLOBECOMM'18, Glo 	ops: SecSDN	

TEACHING

Associate Instructor, ECS390 Teaching in Computer Science Lead Teaching Assistant, ECS 132 Probability & Statistical Modeling Lead Teaching Assistant, ECS 20 Discrete Mathematics Lead Teaching Assistant, ECS 20 Discrete Mathematics Fall 2020 Summer 2020

Spring 2020 Winter 2020

SELECTED PUBLICATIONS

JOURNALS AND PEER REVIEWS

- 1. **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(Impact Factor: 4.639)
- 2. 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. (Impact Factor: 1.153)
- 3. 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.)

CONFERENCE PROCEEDINGS

- 4. 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.
- 5. 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.
- 6. **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.
- 7. **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.
- 8. **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.
- 9. **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.
- 10. **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.
- 11. **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.
- 12. Kaneriya S, **Vora J**, Tanwar S, Tyagi S, "Standardising the use of Duplex Channels in {5G-WiFi} Networking for Ambient Assisted Living", 2019 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)
- 13. **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.

PROJECTS WORTH

- 1. Tikaa project, a vaccine record keeping system- www.jayneelvora.com/thetikaa
- 2. The Insulin Keeper, a diabetes management system-www.jayneelvora.com/theinsulinkeeper

LEADERSHIP SKILLS

- 1. Club Captain, Mozilla Nirma 2018–19-www.jayneelatmozilla.wordpress.com
- 2. Founder, EduMasala 2015-16
- 3. GSA Representative, UC SHIP, Davis Committee.
- 4. GSA Representative, UC Davis Graduate Council Courses Sub-Committee.
- 5. GSA Representative, UC Davis Graduate Council Admissions and Enrollment Committee.

SERVICE

- 1. Reviewer, Wiley- Security and Privacy Journal
- 2. Shadow Program Committee, IEEE Security and Privacy