

# JAYNEEL RIPAL VORA

## University Of California, Davis

CONTACT INFORMATION	<a href="mailto:jrvora@ucdavis.edu">jrvora@ucdavis.edu</a>	<a href="https://www.linkedin.com/in/jayneelv68">LinkedIn:jayneelv68</a>	<a href="http://www.jayneelvora.com">www.jayneelvora.com</a>
RESEARCH INTERESTS	System Design, Wireless Communications, Networks, Machine Learning, mmWaves.		
EDUCATION	<b>University of California, Davis</b> <i>Doctorate of Philosophy (Ph.D.) in Computer Sciences</i> Advisor: <b>Prasant Mohapatra</b>  <b>Institute of Technology, Nirma University</b> <i>Bachelors in Technology(B.Tech) in Computer Engineering</i> Advisor: Sudeep Tanwar Major Project: AI-Assisted Maternal and Child Health Chatbot.		
			Sep'19-Ongoing
			July'15-May'19
INTERNSHIPS	<b>BrunHealth Pvt. Ltd, New Delhi, India</b> Mentors: <b>Prashant Jha</b> , Prateek Saraswat and Manisha Laroia <ul style="list-style-type: none"><li>Designed a keyword analyzer and message-topic matcher.</li><li>Designed a recommendation system for personalized messages, mimicking the Quartz chat app.</li></ul> <b>BrunHealth Pvt. Ltd, New Delhi, India</b> Mentors: <b>Prashant Jha</b> , Prateek Saraswat and Manisha Laroia <ul style="list-style-type: none"><li>Designed a human interaction model for expecting mothers</li><li>Developed a command-line implementation of the bot.</li><li>Deployed the bot on the FB page and furthered analysis.</li></ul> <b>Sentinel Healthcare, Seattle, USA</b> Mentors: <b>Nirav Shah</b> , Jorge Sanchez and Tanzid Shams <ul style="list-style-type: none"><li>Observed doctors and therapists understanding the workflow in hospitals, clinics and care homes.</li><li>Designed and developed a gait-analyzer prototype which was tried out at an outpatient clinic.</li></ul>		
			Jan-Apr'19
			May-Jul'18 Sep-Nov'18
			May-Jul'17
OBSERVERSHIPS	<b>Swedish Medical Centre, Seattle, USA</b> Shadowed the Stroke director, experienced a clot removal surgery, observed occupational therapists and stroke patients. <b>Johnson City Medical Hospital, TN, USA</b> Shadowed a paediatric neurologist, an occupational and physical therapists and radiologists. <b>Oasis Pavilion, Arizona, USA</b> Shadowed the medical in charge, occupational therapists and the working of a care-home. <b>Institute Of Science, Nirma University</b> Shadowed a Doctoral student on the process of karyotyping. <b>Unipath Laboratory, Ahmedabad, India</b> Shadowed the lab technician on using a karyotyping software.		
			Jul '17
			Jul '17
			Jul '17
			Sep '17
			Oct '17
RESEARCH EXPERIENCE	<b>Graduate Student Researcher, Networks Lab, UC Davis</b> <ul style="list-style-type: none"><li>Working on: Given existing cellular radio transmissions, can we use the cellular bands for "sensing"?</li><li>Working on: Consensus without packet extraction.</li></ul> <b>Undergrad Researcher, Nirma University</b> <ul style="list-style-type: none"><li>Designed and developed systems for Ambient Assisted Living</li></ul> <b>Undergrad Researcher- Spring Intern, IIT- GN, India</b> <ul style="list-style-type: none"><li>Worked on designing the workflow for crowd motion analysis.</li></ul>		
			Sep '19-
			Jan '17- Dec '18
			Jan-Mar'17
AWARDS	<input type="checkbox"/> Graduate Group of Computer Science Fellowship- UC Davis <input type="checkbox"/> Best Paper Award, 2019 IEEE ICC Workshops: SecSDN <input type="checkbox"/> Travel Grant, IEEE GLOBECOMM'18, Globecom Executive Chair Grants		

## 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 Base 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", "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)
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.

Tikaa project, a vaccine record keeping system- [www.jayneelvora.com/thetikaa](http://www.jayneelvora.com/thetikaa)  
The Insulin Keeper, a diabetes management system- [www.jayneelvora.com/theinsulinkeeper](http://www.jayneelvora.com/theinsulinkeeper)

Club Captain, Mozilla Nirma 2018-19- [www.jayneelatmozilla.wordpress.com](http://www.jayneelatmozilla.wordpress.com)  
Founder, EduMasala 2015-16