

Jayneel Vora

Computer Engineering Student.

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COMPUTATIONAL SKILLS

Programming Languages:

- C,C++,Java, **Python**, R,SQL,C#(beginner),**Shell Scripting**,
- ENVI-IDL, Matlab, HTML5, CSS, JavaScript.

Technologies well versed with:

- Azure,Machine Learning,Computational Neuroscience,Hyperspectral Image Processing(Remote Sensing-GIS), Android App Development, AWS, Deep Learning, Image Processing
- Fog Computing,Natural Language Processing,GPU Processing, LAMP stack, AWS, Alexa Voice Services

Ongoing Involvements:

1. Working towards AWS Solutions Architect-Associate Certification.
2. Implementing the Phasia app using AWS services.
3. Working on the backend of Financia, an educational app for encouraging financial literacy.
4. Working towards a Vaccine Record Keeping Platform and Piloting in two villages of Gujarat.

Publications

International Conferences:

1. 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 will be Indexed in IEEE-Xplore, SCOPUS)
2. 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)
3. **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)
4. **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)
5. **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 will be Indexed in IEEE-Xplore)
6. **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 will be Indexed in IEEE-Xplore)

7. **Vora J**, Zaveri T, Shah D, Shah P, "Comparison of K-Means and LDA for soil classification using coastal Hyperspectral Data", OCEANS 2018 Charleston Technical Program, 22-25 October 2018, Charleston, USA, (Accepted, to be indexed in IEEE-Xplore)
8. **Vora J**, Kaneriya S, "Real-time Health and Medical Monitoring System Using Accelerometer with Body Area Network", Wireless Telecommunications Symposium", 17-20 April 2018, Phoenix, USA (Accepted, to be indexed in IEEE-Xplore)
9. **Vora J**, Italiya P, Jadav M, Devmurari P, "A Study of Social Engineering Attacks", "12nd International Conference on Cryptography, Security and Privacy", 16-18 March 2018, Guiyang, China (Accepted, to be archived in ACM Digital Library)
10. 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 indexed)
11. **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 (Accepted for Oral Presentation, to be Indexed in IEEE-Xplore, SCOPUS)
12. **Vora J**, Italiya P, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & Kuei-Fang Hsiao, "Ensuring Privacy and Security in E-Health Records", International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2018), Colmar, France, 10 July 2018 (Accepted for Oral Presentation, to be Indexed in IEEE-Xplore, SCOPUS)
13. **Vora J**, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat, "A Blockchain-based Framework for Efficient Storage and Maintenance of Electronic Health Records", "IEEE Global Communications Conference", Abu Dhabi, UAE 9-13 December 2018 (Communicated, to be indexed in IEEE Xplore).

International Journals:

1. Tanwar S, **Vora J**, Tyagi S, Kumar N, "Attacks on Security Services in Vehicular Ad Hoc Networks: Opportunities and Challenges", Security and Privacy Journal (Accepted)
2. Tanwar S, **Vora J**, Kaneriya S, Tyagi S, Kumar N, Sharma V, You I, "Human Arthritis Analysis in Fog Computing Environment using Bayesian Network Classifier and Thread Protocol", International Journal of Electronics and Communications (Impact Factor: 1.147, Accepted)
3. Kaneriya S, **Vora J**, Shah P, "Hidden Markov Model based Real-time Arthritis Patient Monitoring System Using Wireless Body Area Networks, Fog Computing and Infrared Thermography", "Journal of Healthcare Engineering, Hindawi" (Communicated, Impact Factor: 0.965)

Internship Experience:

1. Tech Intern; **Sentinel Healthcare**, USA. (May 2017-July 2017)
2. Intern, AI and Human Computer Interaction, **BrünHealth**, India (May 2018-July 2018)
3. Intern, AI and Human Computer Interface, **Fluvina Technologies**, India (August 2018-December 2018)

Observerships

1. **Swedish Medical Centre**, Seattle, USA (July 2017)
2. **Johnson City Medical Hospital**, TN, USA (July 2017)
3. **Oasis Pavilion**, Arizona, USA (July 2017)
4. Institute Of Science, Nirma University (September 2017)
5. **Unipath Laboratory**, Ahmedabad, India (October 2017)

Research Experience:

1. **Crowd Motion Analysis,IIT-GN**(March 2017- May 2017)
2. **Integration of Fog Computing and IoT for monitoring Neurological patients.**(Jan 2017 - March 2017)
3. **Spectral Discrimination and Separability Analysis of Crops-Weeds,ISRO Funded**(Jan 2017 - May 2017)

Projects

1. **Private Cloud Implementation**(February 2017-April 2017)
2. **Automatic Karyotyping Software**(September 2017- Ongoing)
3. **Cricket Teller: Amazon Alexa App.** (March 2018)
4. **Hypertensive Retinopathy**(October 2017- December 2017)
5. **Traffic Light Manipulation For Emergency Services**(September 2017 - Ongoing)
6. **Information Extractor for Chatbots**(January 2017 - March 2017)
7. **GPU Processing Implementation** (January 2017-February 2017)
8. **Traffic Light_Different Models Implementations**(Sep 2016 - Oct 2016)
9. **Admission Management System**(Sep 2016 - Nov 2016)

Professional Experience

1. Founder, Edumasala.com: Online Exam Testing Portal.(June'15 to Jan'16)
2. Co-founder, Financia: An app promoting financial literacy among children(Feb'18-)
3. CEO and Co-Founder, The Tikaa Project(Aug'18-)

EDUCATION

Institute Of Technology,Nirma University - AUGUST 2015- MAY 2019

- B.Tech. in Computer Engineering:CGPA 7.43/10 .

Udgam School For Children- k-12

- Scored 91% in 12th grade and 9.6/10 GPA in 10th grade.

Campus Involvements

1. **Club Captain, MozillaNirma**(2017)
2. Event Coordinator, **Entrepreneurship Cell**,Nirma University.(2016-18)
3. Event Coordinator, Computer Society Of India, Nirma Chapter(2015-17)
4. Event Coordinator, Indian Society Of Technical Education, Nirma Chapter(2015-17)
5. Member, GPU Processing Group,Nirma University(2016-17)
6. Member, **IEEE SB**, Nirma University(2017-)
7. Student Placement Coordinator(2017-19)
8. Committee Member,Anti Ragging Committee(2017-19)

Invited Talks

1. Guest Speaker, "Research Methodologies in the Field of Image Processing", addressed M.Tech-CSE students at Nirma University,India on 3rd April 2017.

References

1. **Dr Prashant Jha**
Director, School of International Biodesign, Delhi- drpjha@biodesign.school
2. **Dr Nirav Shah**
Stroke Director, Swedish Medical Center, Seattle.- nirav.shah@swedish.org