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EDUCATION	University of California Los Angeles <i>B.S. Electrical Engineering</i>	<i>Fall 2017</i>
	The Doon School, India <i>High School Diploma</i>	<i>Spring 2011</i>
EMPLOYMENT	Medical Imaging Informatics Lab, UCLA <i>Embedded Systems Developer, BREATHE Project</i>	<i>May 2018 - current</i>
	<ul style="list-style-type: none">Improving wearable system reliability by implementing testbenches and CI/CD for legacy code (10k+ lines).	
	Risk Science Institute, UCLA <i>Software Developer, Center for SMART Health</i>	<i>Jun 2016 - Dec 2017</i>
	<ul style="list-style-type: none">Increased Machine Learning (ML) framework accuracy from 72% to 96% by extracting 250 new features.Reduced management overhead by designing a cloud-based fleet management platform for 200+ devices.Enhanced system reliability by building (previously unavailable) automated test & data collection suites.	
	Wireless Health Institute, UCLA <i>Embedded Systems Developer, Sensing At-Risk Populations (SARP) Project</i>	<i>Jan 2015 - May 2016</i>
	<ul style="list-style-type: none">300% increase in wearable battery life by designing an efficient, multi-threaded CPU scheduler.Made 200+ wearables HIPAA-complaint by implementing RSA/AES256 encryption for stored patient data.	
	Embedded & Reconfigurable Systems Lab, UCLA <i>Research Assistant</i>	<i>Aug 2014 - Jan 2015</i>
	<ul style="list-style-type: none">Predicted risk of re-hospitalizations for congestive heart failure patients within 3.3 days (RMSE) by performing clustering analysis on Electronic Health Record datasets.	
COURSEWORK	Digital Signal Processing, Circuit Analysis, Algorithm Design, FPGA Design, Computer Architecture, Feedback Control, Automata Theory, Introduction to CUDA	
SKILLS	<i>Programming:</i> C/C++, Java, MATLAB, Python, JS, UNIX Shell, React, \LaTeX <i>Hardware:</i> PCB Design & Etching, EAGLE, SMT soldering rework, Arduino <i>Frameworks:</i> Android, iOS, Spring, Xilinx, TI CodeComposer, OpenCV, LabVIEW, TensorFlow, Weka	
PROJECTS	Convex Polygon Detector: Real-time polygon detection for low-powered ARM DSPs. Multi-stage pipeline includes IIR Deriche filter, progressive blurring kernel, gradient detection, non-maximal suppression, hysteresis thresholding and Hough Transform.	
	Indoor Location Fingerprinting Using Ambient WiFi: Modeling multimodal RSSI as Gaussian Processes and performing Bayesian Estimation for probabilistic location classification. Written for Android with real-time feedback and on-the-fly updatability. Classifies 30+ locations with $\geq 98\%$ accuracy.	
	Human Activity Recognition on Smartwatch: Real-time detection using supervised learning on wrist-worn MEMS inertial motion sensor data. Distinguishes between walking, running, lying down, sitting, standing or inactive. 256 extracted features include energy & entropy in time & frequency domains. Classification performed using Neural Networks with $\geq 95\%$ accuracy.	
	Analog Utility Meter Reader: Power consumption detection in real-time from analog dials in LA power meters using mounted USB camera. OpenCV implementation pipeline includes noise suppression, SIFT, circular Hough Transform & needle angle detection.	
PUBLICATIONS	R. Malavalli, Arjun , N. Gupta, “ <i>Indoor Localization Through Machine Learning on WiFi Fingerprints</i> ”, International Conference on Indoor Positioning and Navigation (IPIN’17).	
	Bouchard K., Ramezani R., Arjun , Naeim A., “ <i>Evaluation of Bluetooth Beacons Behavior</i> ”, The 7th IEEE Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON’16), pp.1-3, IEEE, 2016.	
	B. Moatamed, Arjun , F. Shahmohammadi, R. Ramezani, A. Naeim, M. Sarrafzadeh, “ <i>Low-cost indoor health monitoring system</i> ”, Wearable and Implantable Body Sensor Networks Conference (BSN 2016), pp.159-164, IEEE, 2016.	
PATENTS	PCT/US2016/037398: “ <i>Subject assessment using localization, activity recognition and a smart questionnaire</i> ”, A.Naeim, R. Ramezani, Arjun , B. Moatamed, M. Sarrafzadeh	
	US Provisional Application (62/330,730) filed May 2, 2016: “ <i>Indoor Health Monitoring System</i> ”, A.Naeim, R. Ramezani, Arjun , B. Moatamed, M. Sarrafzadeh	