

GAURAV PARUTHI

Design Technologist - Software Engineer

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EDUCATION

Ph.D. Information Science	<i>2011- 2017</i>
<i>University of Michigan, Ann Arbor, MI</i>	
Graduate Certificate in Computational Discovery and Engineering	<i>2015</i>
B.E.(Honors) Electrical and Electronic Engineering	<i>Fall 2005-2009</i>
<i>Birla Institute of Technology and Science, Pilani, India</i>	

PROFESSIONAL EXPERIENCE

Human-Computer Interaction Researcher, University of Michigan	<i>Fall 2011 - Winter 2017</i>
Research and Development of a computational model for human behavior, a crowdsourcing system, and IOT devices to advance the design of context-aware systems for behavior change.	
Design Technologist, IDEO CoLab	<i>Summer 2017</i>
Designed an end-to-end smart cities product involving user research and extensive prototyping.	
Co-founder, Sophus Inc.	<i>2016</i>
Led the technology and design effort to build a hyperlocal expertise sharing app.	
Researcher, PARC, Palo Alto, California	<i>Summer 2015</i>
Led the design exploration of an AI assistant for Behavior Change.	
Data Scientist, Telefonica Research, Madrid	<i>Summer 2013</i>
Analyzed large scale data from Kiva to provide design implications for Microlending websites.	
Researcher Engineer, Microsoft Research	<i>2009 - 2011</i>
Designed, engineered, and evaluated educational technologies for resource constrained environments.	

SKILLS

Programming Languages: Python, Javascript, Swift, C/C++, C#, Matlab, SQL
Frameworks: Lambda, RiotJS, React, Flask, Redis, MongoDB, Git
Machine Learning Techniques: Tensorflow, Transfer Learning, Supervised and Unsupervised approaches, Markov Decision Processes
Hardware Prototyping: Arduino, Raspberry PI, Photon, nrf51822
Usability and Design: Hi-fi & Lo-fi Prototyping, Personas & Scenarios, Journey Maps, A/B test

SELECTED PUBLICATIONS

Paruthi et al. Finding the Sweet Spot(s): Understanding Context to Support Physical Activity Plans <i>IMWUT'18</i>
Paruthi et al. HEED: Situated and Distributed Interactive Devices for Self-Reporting <i>UbiComp'17</i>
Paruthi et al. Peer-to-Peer Microlending Platforms: Characterization of Online Traits <i>IEEE Big Data'16</i>
Paruthi et al. Utilizing DVD players as low cost offline Internet Browsers <i>CHI'11 Top 5%</i>

AWARDS AND HONORS

Top 1% IDEO CoLAB Fellowship	<i>2017</i>
First , Exposition, School of Information, University of Michigan	<i>2013, 2016</i>
First , Kaggle Competition for the Course SI-721 Data Mining,	<i>2012</i>
National Finalist , for Google Product Prodigy,	<i>2009</i>
National First Runner-Up , in Microsoft's Imagine Cup, in Software Design, Out of 4000 Teams.	<i>2007</i>
First , Binary Pirates, India's first Capture the flag hacking contest, Quark	<i>2008</i>