



GAURAV PARUTHI

Software Engineer/ Design Technologist/ Entrepreneur

www.gauravparuthi.com —  — 

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

Software Engineer, KindredAI	<i>2018 - Now</i>
Designed and developed machine learning systems that apply computer vision for robot manipulation tasks.	
Human-Computer Interaction Researcher, University of Michigan	<i>Fall 2011 - Winter 2017</i>
Developed systems to explore novel design space after qualitatively understanding complex human behavior.	
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>
Explored the human-centered design of an AI assistant.	
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

Machine Learning Techniques: Pytorch, Tensorflow, Transfer Learning, Supervised and Unsupervised approaches

Frontend Frameworks: React, Typescript, Mobx, RiotJS, Flask, Serverless

Usability and Design: Hi-fi & Lo-fi Prototyping, Personas & Scenarios, Journey Maps, A/B test

UX Research: Qualitative, Quantitative, Experiments, Interviews, User Enactments, Surveys

Hardware Prototyping: Arduino, Raspberry PI, Photon, nrf51822

SELECTED PUBLICATIONS

Paruthi et al. **Finding the Sweet Spot(s): Understanding Context to Support Physical Activity Plans** *IMWUT'18*

Paruthi et al. **Heed: Exploring the Design of Situated Self-Reporting Devices** *IMWUT'18/ UbiComp'18*

Paruthi et al. **Peer-to-Peer Microlending Platforms: Characterization of Online Traits** *IEEE Big Data'16*

Paruthi et al. **Utilizing DVD players as low cost offline Internet Browsers** *CHI'11 Top 5%*

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>