Gaurav Paruthi

Design Technologist - Sofware Engineer

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Education

Ph.D. Information Science   *2011- 2017*
University of Michigan, Ann Arbor, MI
    Graduate Certificate in Computational Discovery and Engineering   *2015*

B.E.(Honors) Electrical and Electronic Engineering   *Fall 2005-2009*
Birla Institute of Technology and Science, Pilani, India

Professional Experience

Human-Computer Interaction Researcher, *University of Michigan*   *Fall 2011 - Winter 2017*
Developed computational models of human behavior, crowdsourcing system, and IOT devices.

Design Technologist, *IDEO CoLab*   *Summer 2017*
Developed an end-to-end smart cities product involving user research and extensive prototyping.

Co-founder, *Sophus Inc.*   *2016*
Led the technology and design effort to build a hyperlocal expertise sharing app.

Researcher, *PARC, Palo Alto, California*   *Summer 2015*
Explored the human-centered design of an AI assistant.

Data Scientist, *Telefonica Research, Madrid, Spain*   *Summer 2013*
Analyzed large scale data from Kiva to provide design implications for Microlending websites.

Researcher Engineer, *Microsoft Research*   *2009 - 2011*
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** *IMWUT'18*

Paruthi et al. **HEED: Situated and Distributed Interactive Devices for Self-Reporting** *UbiComp'17*

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   *2017*

First, Exposition, School of Information, University of Michigan   *2013, 2016*

First, Kaggle Competition for the Course SI-721 Data Mining,   *2012*

National Finalist, for Google Product Prodigy,   *2009*

National First Runner-Up, in Microsoft's Imagine Cup, in Software Design, Out of 4000 Teams.   *2007*

First, Binary Pirates, India's first Capture the flag hacking contest, Quark   *2008*