

GAURAV PARUTHI

Entrepreneur / Design Technologist / R&D Engineer



EDUCATION

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

PROFESSIONAL EXPERIENCE

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| Co-founder, Arboreum CTO of a decentralized P2P lending venture for social good. | <i>2020 - Now</i> |
| R&D Engineer, KindredAI Developed computer vision models and systems for robot manipulation at scale. | <i>2018 - 2020</i> |
| Human-Computer Interaction Researcher, University of Michigan Developed systems to explore novel design space after qualitatively understanding complex human behavior. | <i>Fall 2011 - Winter 2017</i> |
| Design Technologist, IDEO CoLab Designed an end-to-end smart cities product involving user research and extensive prototyping. | <i>Summer 2017</i> |
| Co-founder, Sophus Inc. Led the technology and design effort to build a hyperlocal expertise sharing app. | <i>2016</i> |
| Researcher, PARC, Palo Alto, California Explored the human-centered design of an AI assistant. | <i>Summer 2015</i> |
| Researcher Engineer, Microsoft Research Designed, engineered, and evaluated educational technologies for resource constrained environments. | <i>2009 - 2011</i> |

SKILLS

Programming Languages: Python, Javascript, Swift, Go, C/C++, C#, SQL
Machine Learning: Pytorch, Scipy, Numpy, Pandas, Keras
Frontend Frameworks: React, Typescript, Mobx, 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, BLE

SELECTED PUBLICATIONS

Zaky Y., Paruthi G., Tripp B., Bergstra J. **Active Perception and Representation for Robotic Manipulation** *Computer Vision and Pattern Recognition, arXiv preprint 2020*
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. **Utilizing DVD players as low cost offline Internet Browsers** *CHI'11 Top 5%*

AWARDS AND HONORS

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| 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> |