## Gaurav Paruthi

Entrepreneur / Design Technologist / R&D 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 Co-founder/ CTO, Arboreum May, 2020 - Now Credit union as a service with a vision to provide credit access via decentralised trust networks R&D Engineer, KindredAI 2018 - 2020 Developed computer vision models and systems for robot manipulation at scale. 2011 - 2017 Human-Computer Interaction Researcher, University of Michigan Developed systems to explore novel design space after qualitatively understanding complex human behavior. Design Technologist, IDEO CoLab Summer 2017 Designed an end-to-end smart cities product involving user research and extensive prototyping. Founding Engineer, 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. Researcher Engineer, Microsoft Research 2009 - 2011 Designed, engineered, and evaluated educational technologies for resource constrained environments. 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 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 2007 National First Runner-Up, in Microsoft's Imagine Cup, in Software Design, Out of 4000 Teams.

2008

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