Gaurav Paruthi

Software Engineer / Entrepreneur / Researcher $\label{eq:software} \blacksquare - \heartsuit - in - \textcircled{\textcircled{rescarcher}}$

Ph.D. Information Science	201
University of Michigan, Ann Arbor, MI Graduate Certificate in Computational Discovery and Engineering	201
B.E.(Honors) Electrical and Electronic Engineering	200
Birla Institute of Technology and Science, Pilani, India	
Professional Experience	
 Co-founder/ CTO, Arboreum Credit union as a service providing credit access via decentralised trust networks In top 10% of YC Winter 2021 applicants. Received grants from Algorand and Consensys. Led 3 pilots giving out loans to 40 borrowers (low-income farmers and blue-collar workers) Led a team of 2 engineers to develop the frontend and backend of the lending platform (production) 	2020 - 202 act demo)
R&D Engineer, KindredAI	2018 - 202
 Shipped computer vision models and systems for robot manipulation at scale. Robots sorted models million items for e-commerce fulfillment. The product leveraged my full-stack expertise for: Production software that powered the AI for robots that sorted millions of items every month. Led the human annotation efforts at Kindred. Webapp was used by 100s of human workers to 	
- Led the human annotation enorts at Kindred. Webapp was used by 100s of human workers to more than 40000 images.	nand-annotat
- Built system for reinforcement learning in real and sim environment (https://arxiv.org/abs/20	003.06734)
Human-Computer Interaction Researcher, University of Michigan Developed systems to explore novel design space after qualitatively understanding complex hum Projects details can be found at gauravparuthi.com	<i>2011 - 201</i> an behavior.
Design Technologist, IDEO CoLab	Summer 201
Designed an end-to-end smart cities product involving user research and extensive prototyping.	
Researcher Engineer , Microsoft Research Designed, engineered, and evaluated educational technologies for resource constrained environm	<i>2009 - 201</i> ents.
Skills	
Core: Python, Javascript, Swift, C/C++, C#, SQL, AWS, GraphQL, Postgres	
Frontend Frameworks: React, Typescript, NextJS, Mobx, Flask, FastAPI	
ML Prototyping: Pytorch, Scipy, Numpy, Pandas, Keras	
Hardware Prototyping: NVIDIA Jetson Nano, Arduino, Raspberry PI, nRF52840	
Selected Publications 🎓	
Zaky Y., Paruthi G., Tripp B., Bergstra J. Active Perception and Representation for Rol	botic
Manipulation Computer Vision and Pattern Recognition, arXiv preprint 2020	al Activity
Manipulation Computer Vision and Pattern Recognition, arXiv preprint 2020 Paruthi et al. Finding the Sweet Spot(s): Understanding Context to Support Physics Plans IMWUT'18	
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 Paruthi et al. Finding the Sweet Spot(s): Understanding Context to Support Physics Plans IMWUT'18 Paruthi et al. Heed: Exploring the Design of Situated Self-Reporting Devices IMWU' UbiComp'18 Paruthi et al. Utilizing DVD players as low cost offline Internet Browsers CHI'11 Top AWARDS AND HONORS Top 1% IDEO CoLAB Fellowship First, Exposition, School of Information, University of Michigan 	5% 2013, 201 2013, 201 201 201