

Kinjal Shah

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EXPERIENCE

Apercu Diagnostics | Product Consultant

Freelance | Remote | Aug 2022-Present

- Managed alignment between leadership and an internationally distributed 8 person product development team including project managers, electrical engineers, mechanical engineers, and data scientists
- Advised CEO on prototype development, testing platform design, data quality, and product feasibility
- Identified gap in data analytics strategy and defined new requirements for data generation pipeline and algorithm development to detect presence of bacteria in urine from noisy bedside spectroscopy data

MyoExo | Data & Algorithms, Product Lead | Startup Founding Team

Boston, MA | Jun 2022-Present

- Developed wearable device to monitor progression of neuromuscular disorders
- Defined minimal viable product, created spin-out strategy, and communicated research findings to investors
- Evaluated regulations for medical devices under Direct-to-Consumer versus Business-to-Business market models
- Utilized advanced techniques including PCA, LSTM, and frequency domain analysis to identify digital biomarkers linking multi-sensor data to clinical assessments for Parkinson's Disease
- Led data analysis pipeline development to process data from 7 sensors over 13 experimental conditions per study participant

Harvard Biodesign | Translational Research Engineer

Boston, MA | Dec 2021-Mar 2023

- Evaluated research to product tech transfer viability for 2 translational research projects
- Conducted market analysis of collaborative robotics growth in New England to support submission of NSF Engine grant proposal seeking \$160M to create an accelerator for collaborative robotics research
- Explored impact of user priming on force delivered by assistive wearable robot to enable adaptive human-robot interaction

Johns Hopkins University | HCI Researcher

Baltimore, MD | Jul 2020-Dec 2021

Full Time Researcher (Jan-Dec 2021), Graduate Student Researcher (Jul-Dec 2020)

Advisor: Prof. Mathias Unberath

Master's Thesis: Enabling Cognitive Load Aware User Interfaces for Mixed Reality

Accepted to Women in Machine Learning (WiML) Workshop co-located with NeurIPS 2020 - Poster Presentation

Patent Pending, PCT Application Serial No. 18/556,973, filed October 23, 2023

- Proposed new research direction and led the design and evaluation of initial proof of concept resulting in patent application and two \$100K+ grant proposals on designing more accessible human-AI interfaces
- Developed predictive models for cognitive state change detection from pupillometry data in unconstrained environments
- Built real-time signal processing pipeline for multi-sensor time series data while maintaining temporal alignment
- Designed experimental protocols for user study to capture eye tracking data under varied light and cognitive load levels

Accenture | Life Sciences Consultant

Philadelphia, PA | Nov 2016-Apr 2019

Management Consultant (2018-19), Senior Analyst (2017-18), Analyst (2016-17)

- Designed R&D technology transformation road-map for clinical and pre-clinical functions at global biotechnology company with projected annual savings of over \$100M
- Managed Medidata Clinical Cloud and Veeva Clinical Vault implementations, encompassing future state design, requirements gathering, user acceptance testing, and cross-functional change management with 40+ client partners resulting in successful launches for two \$10M+ programs
- Directed a 5 person global team to complete waterfall Software Delivery Life Cycle (SDLC) documentation and user testing across 9 workstreams over 12 months

EDUCATION

Johns Hopkins University, MSE in Robotics

May 2021

Master's Thesis: Enabling Cognitive Load Aware User Interfaces for Mixed Reality

University of Pennsylvania, BSE in Bioengineering | Magna Cum Laude

Aug 2016

Concentration in Biomedical Devices

The Wharton School, BS in Economics | Magna Cum Laude

Aug 2016

Concentration in Operations, Information, and Decisions with focus on Healthcare Management

SKILLS

Product: Market Analysis, User Research, Cross Function Management, Requirements Definition, SaMD

Machine Learning and Data Analysis: PyTorch, OpenCV, Scikit-Learn, SciPy, NumPy, Pandas, Excel

Programming, CAD, and Data Visualization: Python, MATLAB, Git, SolidWorks, Plotly, Matplotlib, Jupyter