




# UNMA DESAI

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## EDUCATION

**UNIVERSITY OF BRITISH COLUMBIA** | MSc, Computer Science (92.2%) *Sep 2020 – Sep 2022 (Expected)*

Relevant Courses: Human-Computer Interaction (HCI), Information Visualization, Physical User Interface Design and Evaluation, Designing for People Project, Experimental Designs and Analysis in Educational Research

**UNIVERSITY OF MUMBAI** | BE, Computer Engineering (9.06/10) *Aug 2014 – June 2018*

Relevant Courses: Human-Machine Interaction, Structured and Object Oriented Analysis and Design, Software Engineering, Web Technologies, Mobile Computing, Artificial Intelligence, Machine Learning, Soft Computing

## TECHNICAL SKILLS

**UI/UX:** User studies, Persona design, Prototyping, Wireframing, Storyboarding, UI design, Cognitive walkthroughs

**SOFTWARES:** Eclipse, Android, Arduino, Git, Adobe Illustrator, Adobe XD, Figma, WordPress, Plotly

**LANGUAGES:** C, Java, Python, SQL, Perl, HTML, CSS, JavaScript, PHP

## EXPERIENCE

**GRADUATE RESEARCH ASSISTANT** | SPIN Lab, University of British Columbia *Sep 2020 – Present*

- Exploring the impact of data visualizations and haptics as a treatment intervention for youth with chronic pain
- Studying the impact of collaboration and haptics on conceptual grounding in students using qualitative research methods

**GRADUATE TEACHING ASSISTANT** | University of British Columbia *Jan 2021 – Present*

- Evaluating student learning, reviewing and grading student essays and reports on topics in computers, ethics and haptics
- Mentoring student groups and projects, answering student queries, facilitating online discussions

**UI/UX DESIGNER** | Botonomics Automations LLP, Mumbai *Apr– Sep 2020*

- Identified design problems and devised user-centered interfaces and workflows in Adobe XD, Figma
- Low and high-fidelity prototyping, development of wireframes and mockups, user research, UX audit and user testing

**ASSOCIATE SOFTWARE ENGINEER** | Itiviti AB, Mumbai *Aug 2018 – Dec 2019*

- Perl and shell scripting for anomaly detection, application development for FIX protocol creation using Java, XML
- FIX gateway development, client requirement gathering, software testing, debugging, deployment and documentation

## PROJECTS

**DATA VISUALIZATION FOR YOUTH WITH CHRONIC PAIN (MASTERS THESIS PROJECT)** *Jan 2021 – Present*

Working with faculty and experts from B.C. Children's Hospital to design a therapeutic data collection and visualization application for teenage chronic pain patients, studying the use of data visualizations as a treatment intervention

**MEDISYNC (HUMAN COMPUTER INTERACTION COURSE PROJECT)** *Sep – Dec 2020*

Designed a heart attack detection system using wearable sensors and a mobile application. Conducted user research, designed personas, gathered requirements, created storyboards, prototyped and tested the UI design

**KARDIACARE (UNDERGRADUATE THESIS PROJECT)** *Sep 2017 – Mar 2018*

Designed and prototyped a healthcare monitoring and emergency response system for older adults using pulse oximetry and photoplethysmography via wearable sensors coupled with an Android application

Developed and led the project team through conceptual design, research, development, testing and implementation

## ACHIEVEMENTS

- **Best Poster Design** for KardiaCare at Grace Hopper Celebration India 2020, Student Track
- **Pradeep Khare Memorial Scholar**, awarded CAD 1000 in 2021 for research and education in Canada
- **Principal's Award for Excellence** for exemplary overall performance during undergraduate study from 2014-2018
- **Ship It 2019 Runner-up**, Itiviti's annual hackathon, amongst over 50 teams across 13 countries, awarded €1000