

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, 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, Project Management, Software Engineering, Web Technologies, Mobile Computing

SKILLS

UI/UX: User studies, Literature reviews, Persona design, Storyboarding, UI design, Prototyping, Wireframing, Cognitive walkthroughs, Usability testing, Thematic analysis, Affinity diagramming

SOFTWARES: Arduino, Git, Adobe XD and Creative Suite, Figma, WordPress, Miro, Balsamiq, PowerBI, Tableau

LANGUAGES: C, Java, 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, 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

GRAPHIC DESIGNER | Kommune, Mumbai *Aug – Sep 2020*

- Designed social media and marketing assets for Kommune brand partners including Spotify and HP
- Conceptualized and designed websites and other deliverables for brand events

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

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

PROJECTS

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

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

DID WE SAVE OUR TIGERS (INFORMATION VISUALIZATION COURSE PROJECT) *Sep – Dec 2020*

Visualizing data from the Save Our Tigers wildlife conservation program in India, to guide future wildlife conservation projects by detecting and predicting trends, using HTML, CSS, and Plotly.js

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

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

KARDIACARE (UNDERGRADUATE THESIS) *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

Worked on and led the project team through research, design, development, testing and implementation

HEALTHBIT (BITCAMP 2017, AN INTERCOLLEGIATE HACKATHON) *Mar 2017*

Developed an Android application comprising of an interactive smart chatbot and medical database that provided immediate diagnosis and OTC prescriptions/first-aid guide based on user input

ACHIEVEMENTS

- **International Tuition Award** for international student research at UBC, amounting to CAD 6400 over 2 years
- **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 performance during undergraduate study from 2014-2018
- **Ship It 2019 Runner-up**, Itiviti's annual hackathon, amongst 50 teams across 13 countries, awarded €1000

ACTIVITIES

- Presented a demo of my Masters thesis at the **International Symposium on Pediatric Pain (ISPP) 2022**
- **DFP CREATE** trainee at the Sensory Perception and Interaction (SPIN) Lab, UBC, working on HCI research supervised by Dr. Karon MacLean
- Poster presenter at **Grace Hopper Celebration India 2020**, presented KardiaCare
- **Assistant Technical Head** at **Computer Society of India (CSI) – TSEC chapter**, during undergraduate study, responsible for web and app development, also organized inter-collegiate coding and technical competitions
- **Project Mentor** at **Computer Society of India (CSI) – TSEC chapter**, during undergraduate study, mentored and worked with first year students to develop technical projects
- Volunteered with **Citizens Association for Child Rights (CACR)**, an Indian NGO, teaching sanitation and hygiene principles to underprivileged children using interactive teaching methods