

Samarth Singhal

Designer, Researcher



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OBJECTIVE

Seeking a full-time job in a fast-paced, collaborative environment to help people build products, services and interfaces by making smart decisions through thoughtful experience design, development and research methods.

EDUCATION

Masters of Science in Human-Computer Interaction (HCI)

Simon Fraser University (SFU), *Canada*

2015 - 2017, CGPA: 4.2/4.33

Bachelor of Technology in Computer Science Engineering

Jaypee Institute of Information Technology, *India*

2008 - 2012, CGPA: 8.4/10 (*Department Rank: 14th*)

EXPERIENCE (~5 years)

UX Researcher, Curatio, *Canada*

Apr 2017 - Present

Designed and developed a wireless tangible artifact for users (patient-centric) to interact and live with content generated by other users using the Curatio platform. The goal was to draw users attention, curiosity, and engagement by interacting with an everyday artifact.

UX Developer, Samsung, *Canada*

May 2016 - Aug 2016

Developed a smartwatch application to enhance the workplace **collaboration** and awareness among flight attendants in collaboration with Samaung and SFU.

UX Researcher, Simon Fraser University, *Canada*

Sep 2015 - Present

My expertise is in developing prototypes, conducting and managing research using qualitative and quantitative methods. I translate discoveries into guidelines for new and better products and experiences, and have collaborated with local companies and research partners (Samsung, Microsoft Research, University of Calgary) to expand my knowledge and skills.

Senior Systems Engineer, Infosys, *India*

Jun 2014 - Jul 2015

Developed and enhanced the CRM application for an Australian financial service provider using **agile** methodologies working as a technical analyst from off-shore.

Contributed the **highest value-adds** of \$220K/yr by optimizing daily batch jobs and automating the manual tasks of bankers during FY 14-15.

Systems Engineer, Infosys, *India*

Jul 2012 - Jun 2014

Responsible for the development of financial sector mobile apps and proof of concepts to validate the technical feasibility and access the scope of functional requirements.

RESEARCH PROJECTS (www.samarthsinghal.com for portfolio)

Designer, Developer & UX Researcher, Flex-N-Feel (*Thesis*)

Fabricated and engineered a pair of tangible gloves to transfer touch over distance for geographically-separated couples using vibrotactile sensations wirelessly. Conducted a user study and published peer-reviewed work. This project was featured on Discovery Channel, Fastco Design, CBC, CTV, SFU news, and other new channels.

Designer & Developer, Time-Turner

Designed and developed a physically-situated visualization in the form of tangible table coasters. Explored the design of embedding visualization through everyday objects in the home and its impact on daily family practices and routines.

HONORS

Clark Wilson Scholarship

(\$1400 CAD), Spring 2017

SIAT Travel Award

(\$2000 CAD), Spring 2017

Graduate Fellowship

(\$6500 CAD), Spring 2017

SIAT Travel Award

(\$1000 CAD), Spring 2016

Entrance Graduate Fellowship

(\$6500 CAD), Fall 2015

Infosys GEM of Growth Market Units

Q1 2015

Westpac Spark Recognition Award

Westpac Group, December 2014

1st Prize for Augmented Chemistry

ACM Delhi-NCR, February 2012

SKILLS

Design Methods

Qualitative Research Analysis

User-Centered Design

Contextual Inquiry

Heuristic Evaluation

Usability Testing

Experience Mapping

Storyboards

Card Sorting

Interviewing

Focus Groups

Wireframing

Development

Java (Core)

C/C++

HTML5/CSS

JavaScript

Node.js

MySQL

Android

Tizen

WebRTC

PeopleSoft

Physical Prototyping

High & Low Fidelity Prototyping

Arduino Programming

Woodwork

Soldering

Hacking/Tinkering

RESEARCH PROJECTS *(continued)*

UX Developer, Smart Crew

Developed a smartwatch app for in-flight collaboration and awareness among crew members along with Samsung. Compatible on the latest Samsung S2 watches using Web Sockets and Node.js for the chat server, using BLE beacons for tracking real-time location updates.

Designer & UX Researcher, Escaping Together

Designed and evaluated a distributed escape room that connected two distance-separated rooms through an audio and video connection.

UX Researcher, Telepresence Beams

Conducted an exploratory study to understand the use of telepresence robots to attend conferences remotely (CSCW 2016) in collaboration with Microsoft Research. Conducted interviews with remote participants and analyzed data for future design implications.

UX Designer & Developer, BeWithMe

Designed and implemented an immersive video-mediated communication system that allows the remote users to view the entire 360-degree view providing a better understanding of the spatial context along with a stronger sense of presence and awareness.

Designer & Developer, Augmented Chemistry

Developed an interactive augmented reality application consisting of a tangible user interface to help students understand the spatial relations between molecules.

PUBLICATIONS

Journal Articles

Samarth Singhal, Sameer Bagga, Praroop Goyal, and Vikas Saxena (2012) **Augmented Chemistry: Interactive Education System**, *International Journal of Computer Applications* 49, 15 (July 2012).

Stephanie Wong, **Samarth Singhal**, and Carman Neustaedter (2017) **The Study and Design of Collaboration Tools for Flight Attendants**, *International Journal of Mobile Human Computer Interaction*.

Reviewed Conference Papers

Samarth Singhal, Carman Neustaedter, Yee Loong Ooi, Alissa Antle, Brendan Matkin (2017) **Flex-N-Feel: The Design and Evaluation of Emotive Gloves for Couples to Support Touch Over Distances**, *Proceedings of the Conference on Computer Supported Cooperative Work and Social Computing*.

Rui Pan, **Samarth Singhal**, Bernhard Riecke, Emily Cramer, Carman Neustaedter (2017) **MyEyes: The Design and Evaluation of First Person View Sharing Goggle for Long Distance Couples**, *Proceedings of the Conference on Designing Interactive Systems*.

Hanieh Shakeri, **Samarth Singhal**, Rui Pan, Carman Neustaedter, and Anthony Tang (2017) **Escaping Together: The Design and Evaluation of a Distributed Real-Life Escape Room**, *Proceedings of the ACM Symposium on Computer-Human Interaction in Play*

Reviewed Extended Abstract & Posters

Samarth Singhal, William Odom, Lyn Bartram, Carman Neustaedter (2017) **Time-Turner: Data Engagement Through Everyday Objects in the Home**, *Currently under submission to DIS 2017*.

Samarth Singhal, Carman Neustaedter (2017) **BeWithMe: An Immersive Telepresence System for Distance Separated Couples**, *Proceedings of the Conference on Computer Supported Cooperative Work and Social Computing*.

Samarth Singhal, Carman Neustaedter, Thecla Schiphorst, Anthony Tang, Abhisekh Patra, Rui Pan (2016) **You are Being Watched: Bystanders' Perspective on the Use of Camera Devices in Public Spaces**, *Proceedings of the ACM Conference on Computer Human Interaction*.

Demonstrations

Samarth Singhal, Carman Neustaedter, Alissa N. Antle, Brendan Matkin (2017) **Flex-N-Feel: Emotive Gloves for Physical Touch Over Distance**, *Proceedings of the Conference on Computer Supported Cooperative Work and Social Computing*.

Stephanie Wong, **Samarth Singhal**, Carman Neustaedter (2017) **Smart Crew: A Smart Watch Design for Collaboration Amongst Flight Attendants**, *Proceedings of the Conference on Computer Supported Cooperative Work and Social Computing*.

COURSEWORK

Human Computer Interaction

Tangible Computing
Qualitative Research Methods
Quantitative Research Methods
Cognition, Learning, & Collaboration
Visualization & Communication

Computer Science

Database Systems
Operating Systems
Computer Graphics
Engineering Statistics
Multimedia Computing
Data Structures & Algorithms
Mobile Application Engineering

TEACHING

Design Evaluation

IAT432, Spring 2017

Design Evaluation

IAT 432, Spring 2016

Web Design and Development

IAT 339, Fall 2015

Multimedia Development Lab

Fall 2011

SERVICES

Paper Reviewer

CHI 2016, CHI 2017

Student Volunteer

CSCW 2016, CSCW 2017

Formula 1 Marshall

Indian GrandPrix 2011

REFERENCES

Dr. Carman Neustaedter

Associate Professor, SFU

Dr. Alissa N. Antle

Professor, SFU

Sunish Chabba

Agile Consultant, Coursera