

Samarth Singhal

Design Researcher | Engineer

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EXPERIENCE

North Inc. | Design Technologist

MAR 2018 - PRESENT | KITCHENER, ON

- Ideate, design, develop, and conduct user research of early concepts to validate the unknowns, identify risk, and explore the design space for everyday smartglasses.
- Lead the design and development of projects related to contextual computing, AI/ML, computer vision, sensor fusion, interaction techniques to enhancing the overall user-experience of smartglasses.
- Showcased the value of generative and evaluative user research, enhances the team's research capabilities, and champion culture of continuous learning from our development efforts.
- Grew the presence of design thinking and design research across the software teams by enabling the teams to adopt the user-centric mindset.

Simon Fraser University | Graduate Research Assistant

SEP 2015 - MAR 2018 | VANCOUVER, BC

- Prototyped, developed, and conducted user experience research primarily on connecting distance-separated people over time and space using various research methods and tools (qualitative and quantitative).
- Designed and conducted multiple research studies for the lab on the use of everyday tangible objects in the home, the use of telepresence robots for remote attendance, and explored the design space of 911-video calling.

Curatio | Product Design Intern

APR 2017 - SEP 2017 | VANCOUVER, BC

- Prototyped and designed a smart home device (cube) to enhance the user's engagement towards the platform of connecting patients.

Samsung | UX Intern

MAY 2016 - AUG 2016 | VANCOUVER, BC

- Developed a smartwatch application to enhance workplace collaboration and awareness among flight attendants and crew members.

Infosys Ltd. | Senior Systems Engineer

JUL 2012 - JUL 2015 | INDIA

- Worked as a PeopleSoft Technical Analyst responsible for developing and enhancing a CRM tool using agile methodology, and collaborating with various distributed teams to ensure compatibility and scalability.
- Contributed the highest value-add of \$220K for year FY14-15

EDUCATION

Simon Fraser University | MS HCI

SEP 2015 - AUG 2017 | VANCOUVER, BC

Thesis: Designing Communication Technologies for Couples to Support Touch Over Distance

Advisor: Carman Neustaedter

Jaypee University | B.Tech CSE

JUN 2008 - JUL 2012 | INDIA

Thesis: Augmented Chemistry - Interactive Educational Tool for Chemistry

SKILLS

Research

Usability Testing
Contextual Inquiry
A/B Testing
Interviews
Heuristic Evaluation
Quantitative Surveys
Statistical Analysis

Design

Interaction Design
Service Design
Personas
Storyboarding
Wireframing
Experience Mapping
Data Visualization

Development

Python
Java | Android
C/C++ | Qt | QML
JavaScript
Arduino
TensorFlow | TFLite

Tools

Sketch
Flinto
InVision
XCode
Justinmind
Pen & Paper

HONORS AND AWARDS

Clark Wilson LLP Scholarship, 2017

SFU Graduate Fellowship, 2017-18

GEM of Growth Market - Infosys, 2015

Westpac Recognition Award, 2014

1st Prize at ACM Delhi-NCR Chapter, 2012

PROJECTS

Flex-N-Feel | Simon Fraser University

JAN 2016 - APR 2016

- Fabricated and engineered a pair of haptic gloves to transfer touch over distance.
- Conducted an exploratory study (mixed methods) with couples to explore the design space and evaluate design iterations;
- **Singhal, S., Neustaedter, C., Ooi, Y. L., Antle, A. & Matkin, B. (2017) Flex-N-Feel: The Design and Evaluation of Emotive Gloves for Couples to Support Touch Over Distance, CSCW 2017**

Time-Turner | Simon Fraser University

SEP 2016 - DEC 2016

- A scenario-based field study of a probe to understand how family members would search, filter and replay videos to connect to their past using everyday smart objects such as drink coasters.
- **Singhal, S., Neustaedter, C., Odom, W., Bartram, L. & Heshmat, Y. (2018) Time Turner: Designing for Reflection and Remembrance of Moments in the Home, CHI 2018**

Augmented Chemistry | Jaypee University

DEC 2011 - JUN 2012

- AR application for students to learn chemistry by designing and interacting with the virtual 3D molecular models with the help of a tangible user interface to better understand the 3D modelling and spatial arrangement of molecules.
- **Singhal, S., Bagga, S., Goyal, P., & Saxena, V., (2012) Augmented Chemistry: Interactive Education System, IJCA 49, 15 (July 2012).**

PUBLICATIONS

- Neustaedter, C., **Singhal, S.**, Pan, R., Heshmat, Y., Forghani, A., & Tang, J. (2018) *From Being There to Watching: Shared and Dedicated Telepresence Robot Usage at Academic Conferences*, **TOCHI 2018**
- **Singhal, S.** & Neustaedter, C. (2018) *Caller Needs and Reactions to 9-1-1 Video Calling for Emergencies*, **DIS 2018**
- Wong, S., **Singhal, S.** & Neustaedter, C. (2018) *The Study and Design of Collaboration Tools for Flight Attendants*, **International Journal of Mobile Human Computer Interaction**
- Yang, L., Jones, B., Neustaedter, C. & **Singhal, S.** (2018) *Shopping Over Distance through a Telepresence Robot*, **CSCW 2018**
- Pan, R., **Singhal, S.**, Riecke, B., Cramer, E. & Neustaedter, C. (2017) *MyEyes: The Design and Evaluation of First Person View Video Streaming for Long-Distance Couples*, **DIS 2017**
- Shakeri, H., **Singhal, S.**, Pan, R., Neustaedter, C. & Tang, A. (2017) *Escaping Together: The Design and Evaluation of a Distributed Real-Life Escape Room*, **CHI PLAY 2017**

TEACHING & SERVICES

Teaching Assistant

- Design Evaluation (IAT 432) | Spring 2016, Spring 2017
- Web Design and Development (IAT339) | Fall 2015, Fall 2016

Conference Reviewer

- ACM CHI 2016 - 2019
- DIS 2018
- CSCW 2017

PATENTS

North Inc. 1 Pending

VOLUNTEER

Student Volunteer

- ACM CSCW 2017, CSCW 2018

Formula 1 Marshall

- Fire Marshall for Indian GrandPrix in 2011