

Janet G. Johnson

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Education

University of California, San Diego

M.S. IN COMPUTER SCIENCE, 3.83/4

La Jolla, CA, USA

Sept. 2016 - PRESENT

Manipal Institute of Technology, Manipal University

B.E. IN COMPUTER SCIENCE AND ENGINEERING, 8.79/10

Manipal, India

Jul. 2010 - Jun. 2014

Research Experience

Human Centered and Ubiquitous Computing Lab, UC San Diego

GRADUATE RESEARCHER

La Jolla, CA, USA

Apr. 2017 - PRESENT

- Employing design ethnography to help introduce an ecosystem of both physician and patient-centric (mixed reality) applications in the ICU.
- Co-designed and evaluated HoloCPR, a mixed reality application that provides real-time resuscitation (CPR) aid for novices.

Technologies Used: Unity 3D

Family Medicine and Public Health, UC San Diego

UX RESEARCHER

La Jolla, CA, USA

Nov. 2017 - PRESENT

- Designing a mobile intervention to improve patient-centered communication in primary care.

Connected and Open Research Ethics (CORE), UC San Diego

GRADUATE COLLABORATORY FELLOW

La Jolla, CA, USA

Oct. 2016 - PRESENT

- Responsible for user experience testing and research for the CORE website.
- Understanding the trends of Mobile, Imaging, Sensing, Social, and Tracking research based on IRB forum posts.
- Designing a semi-autonomous system to extract and create relevant posts from IRB resources or proposals.

Technologies Used: Python, Ruby on Rails, jQuery, HTML, CSS, Wordpress

School of Medical Science and Technology, Indian Institute of Technology

RESEARCH INTERN

Kharagpur (IIT-KGP), India

Jun. 2013 - Jul. 2013

- Segmented Magnetic Resonance Images (MRI) to enable brain tumor detection and isolation.
- Employed rough set filtering, edge detection and unsupervised clustering.
- Successfully isolated tumor(s) in MR Images with 78% accuracy.

Technologies Used: MATLAB

Professional Experience

PricewaterhouseCoopers & UC San Diego

DESIGN INTERN

La Jolla, CA, USA

Jun. 2017 - Sept. 2017

- Designed a mixed reality application to visualize and interact with population health insights that drive policy-making.
- Consulted clients to understand their goals, created design sketches, user stories, and product prototypes, and contributed to the development and testing of the application.

Technologies Used: Unity3D, InVision

Microsoft India (R&D) Pvt. Ltd.

SOFTWARE ENGINEER

Hyderabad, India

Jul. 2014 - Jul. 2016

- Designed an interface and developed angular components for an e-commerce site for Microsoft partners.
- Created a tool to identify stressed devices on the Microsoft Corporate Network, reducing the time from 6-8 hrs to approx. 6 minutes.
- Helped formulate business-unit level budget plan, created vendor contracts, and tracked and managed data-center projects as part of a program management stint.
- Developed an online supply chain audit management system for different assessment areas.
- Implemented an online repository for a Windows 8 application that provides project quality metrics.

Technologies Used: .NET framework (C#), SQL Server, Microsoft Azure, Windows App (C# and XAML), HTML5, CSS, AngularJS

Juniper Networks India Pvt. Ltd.

ENGINEERING INTERN

- Designed a framework to enhance the debugging capabilities of EX-Series Platform Forwarding Engine.
- Made additions to JUNOS to pull relevant information from the Routing Engine, PFE and chipset of the switch.
- Reduced time to obtain the above-mentioned information from 30 minutes and 18 seconds to 12.7 seconds.

Technologies Used: C, Python, Unix

Bangalore, India

Jan. 2014 - Jun. 2014

Teaching Experience

CSE 118/218 - Ubiquitous Computing, UC San Diego

TEACHING ASSISTANT

- This course explores ubiquitous computing through both paper readings and a quarter-long project.
- Part of a group of three TAs responsible for grading and logistics of the class.
- Held weekly sessions where students discuss the papers and topic of the week.
- Mentored three teams through the design and development of their projects.

La Jolla, CA, India

Sept. 2017 - Dec. 2017

Interaction Design Specialization, Coursera

TEACHING STAFF

- This specialization, led by Prof. Scott Klemmer of UC San Diego, teaches fundamentals for designing, implementing, and evaluating user interfaces.
- Managed the logistics and course material for the eight courses that make up the specialization.

La Jolla, CA, India

Sept. 2017 - Dec. 2017

COGS 160 - Advanced Interaction Design, UC San Diego

TEACHING ASSISTANT

- This course introduces social computing, interaction techniques and information design in a bi-weekly studio format.
- Helped conduct classes, held office hours, and was responsible for the logistics of the class.
- Created rubrics and graded weekly assignments and the final design submissions.

La Jolla, CA, India

Apr. 2017 - Jun. 2017

Honors and Responsibilities

FELLOWSHIPS AND AWARDS

- 2017 **Graduate Fellow**, UC San Diego Chancellor's Interdisciplinary Collaboratories
- 2010 **First Position**, C++ Kaiser, IE-CSE (Manipal) Coding Competition
- 2010 **Merit - Top 1% in Computer Science in India**, All India Senior School Certificate Examination

La Jolla, CA, USA

Manipal, India

India

LEADERSHIP POSITIONS

- 2013 **Treasurer**, AAINA Dramatics, Manipal University's official dramatics club
- 2013 **Category head, Hospitality**, Revels, MIT Manipal's national cultural festival
- 2012 **Category head, Hospitality**, Techatva, MIT Manipal's national technical festival
- 2012 **Sponsorship Head**, AAINA Dramatics
- 2012 **Assistant Director**, AAINA Dramatics

Manipal, India

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INSTITUTIONAL SERVICE

- 2017 **MS Program Representative**, Computer Science and Engineering, UC San Diego
- 2014 **Host**, Build The Shield, Microsoft's national level college hacking contest
- 2011 **Set Designer**, AAINA Dramatics
- 2013 **Management Committee Member**, Indian Society of Technical Education, Manipal Chapter

La Jolla, CA, USA

Hyderabad, India

Manipal, India

Manipal, India

COMMUNITY SERVICE

- 2012 **Volunteer Service Organization (VSO)**,
- 2008 **Dubai Cares**, Improving access to primary education in developing countries

Manipal, India

Dubai, UAE