# SRIRAM KARTHIK BADAM

School of Electrical and Computer Engineering Purdue University
West Lafayette, IN 47907-2035
Email: sbadam@purdue.edu

http://web.ics.purdue.edu/~sbadam Cell: +1 (765) 491 1767

# **EDUCATION**

Direct Ph.D. (GPA: 3.81 / 4.0)

School of Electrical and Computer Engineering
Aug 2012 – present

Purdue University
West Lafayette, IN, USA

Bachelor of Technology (GPA: 8.78 / 10.0)
Indian Institute of Technology Hyderabad (IITH)

**Department of Computer Science and Engineering** 

Aug 2008 - May 2012

Hyderabad, India

# PROFESSIONAL EXPERIENCE

Purdue University

West Lafayette, IN, USA Sep 2012 – present

# **Graduate Research Assistant**

• Working under the supervision of **Dr. Niklas Elmqvist**, Assistant Professor at Purdue University

# **SKILLS**

Expert at C, C++, Java, C#, Python; HTML, JS, CSS; Matlab;

#### **PUBLICATIONS**

#### Journal Papers (peer-reviewed)

J1. E. R. Fisher, <u>S. K. Badam</u>, N. Elmqvist. Designing Peer-to-Peer Distributed User Interfaces: Case Studies on Building Distributed Applications. *International Journal of Human-Computer Studies*, 72(1): 100-110, 2013.

#### Conference Papers (peer-reviewed)

- C1. Z. Zhao, <u>S. K. Badam</u>, S. Chandrasegaran, D. G. Park, N. Elmqvist, L. Kisselburgh, and K. Ramani. skWiki: A Multimedia Sketching System for Collaborative Creativity. *Proceedings of the ACM CHI Conference on Human Factors in Computing Systems*, 2014.
- C2. <u>S. K. Badam</u>, S. Chandrasegaran, N. Elmqvist, and K. Ramani. Tracing and Sketching Performance using Blunt-tipped Styli on Direct-Touch Tablets. *Proceedings of the ACM Conference on Advanced Visual Interfaces, to appear* May, 2014.

#### **CURRENT PROJECTS**

### PolyChrome (submitted to IEEE InfoVis 2014)

PolyChrome is an application framework for creating web-based collaborative visualizations on multiple devices. The PolyChrome system consists of three distinct components: (1) a distributed web browser framework supporting co-browsing for both new collaborative visualizations as well as legacy websites (via proxy server); (2) a web developer API for building new collaborative web applications supporting multiple devices with different capabilities, displays, and modalities; (3) server-side modules storing state and interaction events for consistency management in synchronous collaboration and for interaction replay in asynchronous collaboration.

### Proxemic Lenses (submitted to IEEE InfoVis 2014)

Proxemic Lens is an **interaction technique** for exploring **multi-scale visualizations** using explicit **gestures** as well as **proxemics**: the spatial relations between people and physical artifacts such as their distance, orientation, and movement. This technique is intended for collaborative environments with large wall displays and is based on **focus+context lenses** that show a detailed view of selected content from an overview visualization. Each lens is controlled by both proxemics and gestures.

### UNDERGRADUATE MAJOR PROJECT

# Mobile Applications for DISANET

DISANET - Information Network for Natural Disaster Mitigation and Recovery, is a joint research project between India and Japan on the use of information and communications technology to mitigate the after-effects of natural disasters.

As a part of this research group, I developed mobile applications for victim registration to support rescue and recovery operations. As a common platform for such applications, under the guidance of my advisors, I designed a data synchronization protocol for post-disaster situations using multi-hop, peer-to-peer communication.

Advised by: Dr. Ravindra Guravannavar and Dr. Naveen Sivadasan, Assistant Professors at IITH.

#### **HONORS AND AWARDS**

• University of Tokyo - Mori Seiki Co. IIT **Undergraduate Scholarship** for the years 2009-10, 2010-11 (Also known as 'Todai IIT Scholarship').

### **REFERENCES**

- **Niklas Elmqvist**, Assistant Professor, Purdue University.
- Avinash C. Kak, Professor, Purdue University.

email: elm@purdue.edu

email: kak@purdue.edu