PURVI DESAI
UC San Diego
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Education

UC San Diego 09/2014 - 06/2016 (Expected)
M.S. Student, Computer Science

Pune Institute of Computer Technology (PICT) 06/2008 - 05/2012
B.E., Computer Engineering
First Class with Distinction

Employment

UC San Diego 09/2015 - Present
Graduate Student Researcher
Prof. Nadir Weibel, Prof. Lawrence Saul, Prof. Amarnath Gupta

UC San Diego 04/2016 - Present
Teaching Assistant: CSE250A (Principles of Artificial Intelligence)
Prof. Lawrence Saul

Apple 06/2015 - 09/2015
Software Development Intern

UC San Diego 04/2015 - 06/2015
Teaching Assistant: COGS121 (HCI Programming Studio)
Prof. Nadir Weibel

UC San Diego 01/2015 - 04/2015
Teaching Assistant: CSE170 (Intro to HCI)
Prof. Scott Klemmer

UC San Diego 09/2014 - 12/2014
Research Assistant: UCSD Design Lab
Prof. Scott Klemmer

Marvell Semiconductor 06/2012 - 07/2014
Software Engineer, Smart Energy Platform/Internet of Things

Amdocs Innovation Lab 10/2010 - 08/2011
Intern: Operation Support Systems

Projects

GradStudio [*UCSD Design Lab*]

- Worked on Large Scale Data Analysis with data from Peer Learning Platforms (*PeerStudio and Talkabout*) to understand Peer Learning patterns.
- Used this analysis to improve personalized feedback for students in MOOCs (Massive Open Online Classes).

ZING (Zing Is Not Git): A Peer-to-Peer Version Control System [*UCSD*]

- Implemented a distributed peer-to-peer version control system which allows users to work collaboratively without setting up a centralized server or using a repository hosting service.

Understanding Attractiveness of Human Faces in Social Context [*UCSD*]

- Implemented a computational model to understand how social features influence people's perception of facial attractiveness over mere physical traits.
- Used Linear Regression on Pixel Features, Linear Regression on Pixel Features after PCA, and Linear Regression on Social Features to investigate the perception of facial attractiveness.

Tribbler [*UCSD*]

- Designed and implemented a scalable, distributed, and fault tolerant client-server system on top of an underlying key-value store. This system could be modeled as a social networking site like Twitter.

Smart Home Solutions [*Marvell Semiconductor*]

- Worked on home-automation solutions for smart lights, smart washing-machine, smart mattress, and smart pollution-meter.
- Worked on HomeKit Accessory Protocol for Apple's HomeKit Framework.

Efficient Network Inventory Discovery [*Amdocs Innovation Lab*]

- Implemented highly scalable interrupt-driven network discovery for automatically discovering topology change in routers. Before this solution, they used polling based discovery which was very inefficient.

Social-Commerce [*PICT*]

- Built a platform for social commerce that uses social graph technology to help drive higher sales and provide better user experience.

Publications

Catherine M. Hicks, C. Ailie Fraser, Purvi Desai, Scott Klemmer. *Do Numeric Ratings Impact Peer Reviewers?* Learning@Scale, 2015.

Purvi Desai, Akanksha Panse, Manali Jadhav, Ashwini Gavhane, Aniruddha Patwardhan. *Fiesta: Parallelism for Data Collection and Intelligent Inference in a Distributed Heterogeneous Environment.* Fifth UKSim European Symposium, 2011.

Relevant Coursework

UC San Diego
CSE 250A (Principles of Artificial Intelligence), CSE 223B (Distributed Systems), CSE 216 (Research Topics in HCI), CSE 221 (Operating Systems), CSE 250B (Machine Learning), COGS202 (Computational Modeling of Cognition), CSE 240A (Computer Architecture), CSE 202 (Design and Analysis of Algorithms), CSE 230 (Principles of Programming Languages)

Pune Institute of Computer Technology
Design and Analysis of Algorithms, Programming Languages, Computer Networks, Operating Systems, Computer Architecture, Software Engineering

Technical Skills

C/C++, Python, Objective-C, Golang