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Onkur Sen

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EDUCATION

Rice University, August 2010 — May 2013

B.S. Physics, B.A. Mathematics

Minor, Computational and Applied Mathematics

GPA: 3.57/4.00

ACADEMIC HONORS

Sigma Pi Sigma Inductee Rice Trustee Distinguished Scholar

Rice Century Scholar Robert C. Byrd Scholar

August 2010 August 2010

May 2010

May 2013

SOFTWARE ENGINEERING EXPERIENCE

Palantir Forward Deployed Engineer (Philanthropy Team) May 2013 — Present

Python/Java

• Developed custom visualizations of critical resource availability and surveys of medical institutions for refugees • Integrated parcel data on sites affected by May 2013 Oklahoma City tornado to aid disaster relief efforts by Team Rubicon

Plum District

KPCB Engineering Fellow

May 2012 — August 2012 Ruby/Rails

• Implemented tracking mechanism for Remarketing, Omniture, and Google Analytics

Corrected redemption of vouchers and allowed view of past offers in business center

TripAdvisor December 2011 — January 2012

Software Engineer Intern

Java/Velocity

• Removed cross-site scripting (XSS) vulnerabilities and improved display of Facebook likes, ratings, and recommendations

Research

Apparition

Spring 2014 — Present

Advisor: Dr. Michael Bernstein, Stanford University

JavaScript (Meteor)

• Developing webapp that utilizes crowdsourcing around a Method Draw canvas to quickly prototype interfaces

Searching for Supersymmetric Top Quarks at the LHC

Fall 2012 — Spring 2013

Advisor: Dr. Paul Padley, Rice University

Python

- Used boosted decision trees in ROOT TMVA to isolate decay of stop quarks from background top-top interactions
- Extended on phenomenological data and theory from Bhaskar Dutta et al. (Texas A&M)
- Publication: Sen, O. and Padley, B.P. Searching for Supersymmetric Top Quarks at the LHC [Thesis]. April 22, 2013.

Melody Analysis and Harmony Generation

Fall 2011 — Fall 2012

Advisor: Dr. Kurt Stallmann, Rice University

Python

- Determined key of input score given only melodic line and generated complementary harmonic progression
- Publication: Sen, O. and Stallmann, K. Analysis of Melody Through Key Definition and Generation of Complementary Harmonies. Rice Undergraduate Research Symposium. Houston, TX, April 13, 2012.

Computationally Generating Musical Variations

Fall 2009 — Fall 2011

Advisor: Dr. Sandip Sen, University of Tulsa

Java

Java

Java

- Created systematic framework for representing musical scores and used genetic algorithms to create variations on themes • Publication: Sen. O. Creating Musical Variations Using Genetic Algorithms. American Junior Academy of Sciences.
- Washington, DC, February 16–20, 2011.

Social Networks and Norm Emergence

Fall 2008 — Summer 2009

Advisor: Dr. Sandip Sen, University of Tulsa

- Analyzed comparative speed of emergence of a norm in social networks with different topologies and behavioral patterns
- Publication: Sen, O. and Sen, S. Effects of Social Network Topology and Options on Norm Emergence. Lecture Notes in Artificial Intelligence Vol. 6069, p. 211–222, Springer-Verlag, 2010.

Social Dilemmas and Aspiration Levels

Fall 2007 — Summer 2009

Advisor: Dr. Sandip Sen, University of Tulsa

- Developed algorithmic approach to solve the Tragedy of the Commons in a multi-agent system using aspiration levels
- Publication: Sen, O. and Sen, S. Solving the Tragedy of the Commons by Adapting Aspiration Levels. Proceedings of COIN@IJCAI09. San Diego, CA, July 11, 2009.

PROJECTS

Contagion: model of diseases spreading across social networks (Hack Week) Python, D3 2013 Rice University Catalyst: website

HTML/CSS catalyst.rice.edu 2011 - 2013Rice University South Asian Society: website sas.rice.edu HTML/CSS 2011-2013