

Abhinandan Patni

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OBJECTIVE

Seeking full time employment starting Fall 2016.

SELECTED COURSEWORK

Analysis of Algorithms · Software Engineering · Operating Systems · Compiler Design · Computer Networks · Object Oriented Programming Paradigm · Database Systems · Multicore Systems Programming · Concurrent & Distributed Systems

EDUCATION

University of Southern California

Computer Science, GPA - 3.72/4

Master of Science

Expected Fall 2016

Vellore Institute of Technology, India

Computer Science and Engineering, CGPA - 8.96/10

Bachelor of Technology

2010–2014

TECHNICAL SKILLS

Programming Languages: C, C++, PYTHON, C#, JAVA, PHP, OPENMP, CUDA C

Technologies: MS VISUAL STUDIO, ECLIPSE IDE, L^AT_EX, OCTAVE, UNITY

Platforms: WINDOWS, MAC OS X, LINUX

INTERNSHIP EXPERIENCES

Software Engineering Intern, Zynga

Worked on automated testing of Unity games and upgrading Zynga Poker to 64-bit mobile architecture.

San Francisco, CA

June'15–Present

Student Worker under Dr. Michael Zyda, USC GamePipe Lab

N-body simulation OpenCL kernel for server scalability test cases.

Los Angeles, CA

Sept'14–Nov'14

Student Researcher under Dr-Ing. Marius Feldmann, TU Dresden

Devised a node contact prediction algorithm for Delay Tolerant Networks with 90% success rate.

Dresden, Germany

May–July 2013

Student Researcher under MSc. Kateryna Rybina, TU Dresden

Analysed and detected patterns in energy consumption in live migration of virtual machines.

Dresden, Germany

May–July'13, Jan–June'14

SELECT ACADEMIC PROJECTS

Weenix: A Mini Operating System

Co-wrote an operating system kernel in C with threading, file system management and virtual memory.

Jan'15–May'15

RoachSim: A simple cockroach simulator

Developed a graphical simulator in Python to demonstrate swarm behavior of cockroaches.

Sept'14–Nov'14

uION: A FreeRTOS based operating system for cube satellite (Undergraduate Thesis)

Part of team that defined standards, software architecture and routing subsystem for the operating system.

Jan'14–June'14

Enhanced ROCK: An improvement to ROCK clustering algorithm

Improved cluster goodness measures to obtain an increased purity of 93–97% in clusters formed.

June'13–Dec'13

PUBLICATIONS

Kateryna Rybina, Abhinandan Patni, "Analysing the Migration Time of Live Migration of Multiple Virtual Machines" 4th International Conference on Cloud Computing and Services Science'14

Zeon Trevor Fernando, Priyank Trivedi, Abhinandan Patni, Priyal Trivedi, "DOCAID: Predictive Healthcare Analytics using Naïve Bayes Theorem", 2nd Student Research Symposium, in conjunction with 2nd IEEE International Conference on Advances in Computing, Communications and Informatics, India 2013