Nakul Joshi

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EDUCATION

B.S. Computer Engineering/Computer Science
University of Southern California GPA: 3.575/4 *Expected Graduation May 2014*
Relevant Coursework

Data Structures	Computer Architecture	Object-oriented Programming	Software Engineering
Web Publishing	Calculus & Statistics	Artificial Intelligence	Digital Forensics

TECHNICAL SKILLS

Languages	Java, C/C++, Python, HTML, JavaScript, Verilog
Tools	Eclipse, NetBeans, SVN, Git, Mathematica, Xilinx ISE
Packages	Microsoft Office, LaTeX

WORK EXPERIENCE

Viterbi School of Engineering January 2013 - Present
Undergraduate Teaching Assistant, Data Structures *Los Angeles, CA*

· Led lab sections for the course.
· Graded assignments and tests.
· Held office hours during which I answered students' questions.

University of Paderborn May 2012 - July 2012
Research Intern *Paderborn, Germany*

· Co-authored a paper on Digital Rights Management (DRM) with a Ph.D. student.
· Gained a background in cryptography through research and applied it to develop a protocol for a cloud-based DRM solution.

Viterbi Academic Resource Center January 2012 - Present
Peer Tutor/Supplemental Instruction Leader *Los Angeles, CA*

· Assisted students with engineering classes in one-on-one sessions.
· Led weekly group sessions to supplement introductory computer science lectures.

PUBLICATIONS

Towards practical privacy-preserving Digital Rights Management for Cloud Computing IEEE CCNC 2013
Co-author

· Created a cryptographic protocol that protected the copyright on cloud-based software.
· The protocol specifically protected the privacy and anonymity of users in the system.

ACADEMIC PROJECTS

Factory simulation Fall 2011

· Collaborated with seventeen students to simulate a multi-agent system.
· Designed and implemented the user interface.

Constraint Satisfier Fall 2012

· Wrote a program that found boolean assignments that satisfied a given set of logical statements.
· Applied the program to create a Sudoku-style puzzle solver.

HONORS AND ACHIEVEMENTS

Dean's List Fall 2010, Spring 2011, Fall 2011, Spring 2012

Engineering Honors Colloquium

Southern California Regional International Collegiate Programming Contest Fall 2010
Placed 6th out of over 90 teams

IEEE Eta Kappa Nu Honors Society Member since Spring 2012