

MOHIT GOENKA

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EDUCATION

- **Master of Science with Thesis on Game Theory and Human Behavior, Computer Science** May 2011
University of Southern California, Viterbi School of Engineering Los Angeles, CA
❖ Algorithms, Artificial Intelligence, Software Multiagent Systems, Machine Learning, Data Analytics, Web Technologies, Information Integration, Information Retrieval and Web Search Engines and Feasibility Analysis GPA 3.85/4.00
- **Bachelor of Engineering, Computer Science and Engineering** June 2009
Lakshmi Narain College of Technology Bhopal, India
❖ Data Structures, Computer Graphics and Multimedia, Database Management System, Software Engineering and Neural Networks 83.56% (Major GPA 4.00/4.00)
❖ First Division with Honors

TECHNICAL PROFICIENCY

- **Web Development:** HTML, CSS, XML, RDF, OWL, JSON, XSLT, JavaScript, YUI, Backbone, Underscore, PHP and JSP
- **Languages:** C, C++, Visual BASIC, Java, Python, Perl and MATLAB
- **Tools:** SVN, Git, Jenkins, Agile development, MySQL, Microsoft Access, SQL and GeNIe
- **Operating Systems:** Microsoft Windows 98/2000/XP/Vista/7/8, Unix, Linux, Mac and Sun Solaris
- **Hardware Proficiency:** Computer Assembly, Laptop Assembly, Laptop troubleshooting and Hard Disk troubleshooting

WORK EXPERIENCE

- Software Applications Development Engineer, **Yahoo Inc.** April 2013 - Present
Intermediate Software Development Engineer, **Yahoo Inc.** July 2011 - March 2013
Working on the Yahoo! Mail feature team and integrating mail management applications in the system
- Senior Software Development Engineer, **Kneon Inc.** January 2011 - July 2011
Assisting in the development of the e-commerce technology and maintaining the backend of company's database
- Research Assistant and Webmaster, **Teamcore Research Group (Artificial Intelligence)** May 2010 - May 2011
Assisting in research projects and managing the website of the group under Professor Milind Tambe, USC
- Administrator and Webmaster, **Game Theory and Human Behavior Group** June 2010 - May 2011
Administering seminars and workshops for multidisciplinary group involving 9 USC schools; Professor Milind Tambe, USC
- Tutor, **Scholars Building Scholars Program** at University of Southern California September 2010 - December 2010
Teaching children aged 5 to 16, under the Chaka Khan Foundation program
- Teaching Assistant, **Artificial Intelligence and Robotics** January 2010 - August 2010
Designing, grading and assisting students in the course by Professor Sven Koenig and Professor Hadi Moradi, USC
- Founder, Student Reporter and Webmaster, **Acadote (Academic Notes)** May 2010 - August 2010
Established a Los Angeles based startup and served as student reporter and webmaster
- Intern, **SUN Microsystems** December 2007 - June 2009
Organized workshops and seminars on SUN technologies as Campus Ambassador Committee member at LNCT
- Lab Incharge, **Computer Science Lab** October 2005 - August 2007
Managed computer network management and aided students in summer projects at LNCT
- Intern, **HCL Infosystems Limited** June 2007 - July 2007
Carried out study and implementation of ISP, Internet Service Provider at Jabalpur

PROJECTS

- **Behavioral Game Theory (Java, PHP and MATLAB)** June 2010 - April 2011
Thesis: Computational Model of Human Behavior in Security Games with Varying Number of Targets
Designed games to simulate the real-world security and analyzed the obtained data for determining the best randomized security pattern using *Java, PHP* and *MATLAB*
- **IRIS, Intelligent Randomization In Scheduling (Java)** October 2010 - March 2011
Worked on an enhanced system to randomize selection of a set of high risk flights to increase terrorist uncertainty based on *Java*, now in use in limited international sectors by the Federal Air Marshals (FAMs)
- **GUARDS, Game-theoretic Unpredictable And Randomly Deployed Security (Java)** June 2010 - November 2010
Worked on an enhanced system to randomize airport security activities based on *Java*, now in operation at Los Angeles (LAX) and Pittsburgh (PIT) International Airports by the Transportation Security Administration (TSA)
- **Risk Assessment in Security Games based on Communicative Messages (MATLAB)** August 2010 - December 2010
Designed a risk assessment system for based on facial expressions in *MATLAB*
- **Evacuation Simulation (C++)** May 2010 - August 2010
Implementing the simulation of evacuation using the concept of multiagent systems and Massive

- **JSON interface to control HDFS** (*Java and Python*) May 2010 - August 2010
Developed a JSON based interface to process data directly to/from the HDFS system in *Java* and *Python*
- **Directed Research** on K-Swaps-Cooperative Negotiation of Multiagents (*C++*) January 2010 - June 2010
Implemented an algorithm for Task Allocation problem in Multiagents in *C++*
- **Gesture Recognition** with Neural Networks (*C++*) October 2009 - June 2010
Implemented the concept of gesture recognition with neural networks using *C++*
- **DIG (DCEE with Intelligent Graph) Algorithm** (*C++ and Python*) January 2010 - April 2010
Designed an algorithm to intelligently construct graphs for DCEE in Multiagent systems using *C++* and *Python*
- **Integration of Web Resources and Databases** (*Java*) January 2010 - April 2010
Designed a web interface to automatically integrate web resources and databases using a hybrid algorithm based on *Java*
- **Mashup of Google Maps, Flickr/Veoh/Youtube and Facebook** (*AJAX*) November 2009 - April 2010
Designed a web interface to display Flickr/Veoh/Youtube data and post it on Facebook using *AJAX*
- **Android based Mobile Currency Reader** for Visually Impaired (*Java, C++ and Python*) ACM SS12>Code for a Cause
Designed using Server-Client architecture based on *Java*, *C++* and *Python* (<http://code.google.com/p/pp-usc-ss12-mobilecurrencyreader/>)
- **Any-Angle Path Planning** (*C++*) September 2009
Implemented the concept of any-angle for navigation in Computer Games using A* and Theta* algorithms in *C++*
- **Gait Analysis for Human Recognition** (*C++ and MATLAB*) June 2008 - June 2009
Designed an algorithm for gait analysis technique, using *C++* and *MATLAB* [**Best Student Project Award**]
- **Digital Image Watermarking** (*MATLAB*) January 2008 - June 2008
Implemented for both embedding and detection using *MATLAB*
- **Operating System-Multiple Formats with Enhanced Security** January 2008 - June 2008
Developed a variation of Sun Solaris Operating System to support multiple file formats
- **Autonomous Sumo Robot** (*Keil C*) January 2007
Designed a live robot for Sumo Wrestling in Robotics Workshop held at Indian Institute of Technology Mumbai

PRESENTATIONS

- **Detection of Untouched UFOs:** at LNCT Bhopal (*First Prize - October 2008*), IIT Kharagpur (*January 2008*), *Bhartiya Vigyan Sammelan* (*November 2007*), National Conference LNCT (*April 2007*), IIT Roorkee (*March 2007*) and IIT Delhi (*February 2007*)
- **Programming Clean Development Mechanisms:** LNCT Bhopal (*First Prize - October 2008*), *Bhartiya Vigyan Sammelan* (*November 2007*), National Symposium LNCT (*October 2007*) and *Paryavaran Parisar Bhopal* (*October 2007*)
- **Virtual Reality and Mixed Reality:** State Conference (*May 2009*), National Conference LNCT (*April 2007*) and Jabalpur Engineering College (*Third Prize - October 2006*)
- **Non-Conventional Sources of Energy:** *Bhartiya Vigyan Sammelan* (*November 2007*) and National Conference LNCT (*October 2006*)

ACHIEVEMENTS AND ACTIVITIES

- **Scholastic Achievements**
 - ❖ University of Southern California, Office of International Services Award for Academic Excellence 2009-11
 - ❖ ISC Gold Medal for Excellence in Computer Science 2003-04
 - ❖ Winner: State level Mathematics Olympiad 2003-04
- **Leadership**
 - ❖ Spokerpersion: Association of Indian Students at USC 2010-11
 - ❖ Vice President (Public Relations): Association of Indian Students at USC 2009-10
 - ❖ C-Certificate: National Service Scheme, India 2006-09
 - ❖ President: Red Ribbon Club-Madhya Pradesh State Aids Control Society, India 2008-09
 - ❖ Board Member: Madhya Pradesh Super Eleven Cricket Association, India 2008-09

REFERENCES

- **Scott Frankel**, Co-founder and President, Kneon Inc.
Phone: (917) 991-8445; Email: scott@kneon.com
- **Professor Milind Tambe**, Professor, Computer Science and Industrial Engineering Department, University of Southern California
Phone: (213) 740-6447; Email: tambe@usc.edu; Website: <http://teamcore.usc.edu/tambe>
- **Professor Sven Koenig**, Associate Professor, Computer Science Department, University of Southern California
Phone: (213) 740-6491; Email: skoenig@usc.edu; Website: <http://www.idm-lab.org>