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| **Education**  **Study Abroad** | **Georgia Institute of Technology, Atlanta, GA, USA** Graduating:  *Bachelor of Science in Computer Engineering with minor in Computer Science (Artificial Intelligence)*  Major Specific GPA: 3.97/4.0 Overall GPA: 3.9/4.0 Summa Cum Laude (Expected)  ***Worcester College, Oxford University, UK***  Travelled to UK &10 European countries learning 15-19th century Music, History & Art while taking 12 units of classes  ***Georgia Tech Lorraine, Metz, France***  Travelled 29 cities across 14 European countries exploring diverse scientific community while taking 15 units of core ECE | May 2015  Aug’11–Present  May’13–Aug'13  Jan’13–May’13 |
| **Experience**  •  •  •  •  •  •  •  •  •  • | **Head & Super Undergraduate Teaching Assistant for Math at Georgia Tech-Math Dept.**  Taught Advance Calculus and Linear Algebra to 100 students via classroom & online recitations  All recitations were recorded and published on McGraw Hill website  As Head TA, responsible for other TAs, homework, quizzes & ensuring that course runs smoothly  Taught Advance Calculus and Linear Algebra to 37 students in Fall’12, Fall’13 & Spring’14  Conducted, supervised and graded weekly quizzes, 3-5 midterms & final for 200 students  **Undergraduate Teaching Assistant for Digital Design Lab at Georgia Tech-ECE Dept.**  Taught core principles of Digital Design to undergraduates & helped students complete weekly experiments  **Full Stack Software Engineering Intern on Core Engineering Team at Pandora Media**  Built ‘Artist Tour Builder’ web interface using Machine Learning, data mining. Commercialized as AMP.  **MATHLAB Assistant at Centre for Academic Success at Georgia Tech**  Organized tutoring sessions for Math & Physics. 1-to-1 and 7 students group sessions every week  **Technical Intern at Larsen and Toubro and New Delhi Power Limited, India**  Worked with senior engineers to simulate & analyzepower grid system of North Delhi  Determined flaws in power stations using MATLAB, C++ simulations that increased grid efficiency by 20% | Aug’12–Present  Aug’14–Present  Aug’14–Present  Aug’14–Present  Aug’12–May’14  Aug’12–Present  Aug’14–Present    June’14–Aug’14  Aug’12–Dec’12  May’12–Aug’12 |
| **Research**  •  •  •  •  •  •  •    • | **Lead Undergraduate Research Assistant under Dr. James McClellan, ECE Dept.**  Implemented Intelligent Review Model using Markov Chains, concepts’ cross-correlation, user and class stats  Redesigned concept transition matrix increasing ITS student weakness prediction by 70%  Developed Intelligent Review mode using data mining, increasing student participation by 30%  **Concepts Creation & Refinement Team at Georgia Tech**  Redesigned question ranking & tagging system using n-gram analysis, increasing search efficiency by 53%  Worked on auto arrangement of concepts within ITS system using 3 level integration  Proposed Instructor Assignment Creation system and improved assignment generation efficiency by 29%  **Undergraduate Research Assistant under Dr. Greg Mayer, Math Dept.**  Using statistical models to analyze online teaching interactions. Funded by Georgia Tech President’s Office  **Energy Security Team at Bharat Heavy Electricals Ltd, India**  Reported 5 changes to Bhakra Dam authorities to improve energy security by 21% | Jan’12–Present  Jan’14–Present  Aug’13–Dec’13  Aug’12–Dec’12  Jan’12–May’12  Aug’14–Present  2010–2011 |
| **Projects**  •  •  •  •  •  • | **GTNoir: Android AI story generator using Hierarchical Task Networks, Partial Order Planning**  **Connectied: A Wearable Spatial Augmented Reality Device using OpenCV, C, C#, MATLAB**  Made of kinect, processor & projector, it does real-time gesture recognition using Hidden Markov Models  Controlled by only human gestures, it computes, searches internet & projects on any flat physical surface  **Artificial Intelligent computer games agents using Python & C**  Using A\*, constraint based search, Dynamic Bayes Nets to design intelligent PAC-MAN agents  Making 2D games using Gameboy mode III/ IV architecture, meeting memory & hardware constraints  **Hand Writing & Vehicle Recognition using fully connected neural nets**  **AmigoBot Robot Self-Test (1024 lines of Assembly code)**  Automated self-test to help instructor and TAs repair and maintain robot’s hardware  **“Minesweeper Game solver” in Assembly (107 lines of Assembly code), N-cache simulator in C**  **“Dynamic Pattern Recognition” on ARM Processor** **using C++**  **Physical Modeling & Simulation using vPython**  3-D N-Celestial System, Spring Projection Modeling to study physical & celestial phenomenon | Aug’14–Present  Jan’14–May’14  Jan’12–May’14  May’14  Jan‘13–May’13  Aug’13–Sept’13  Oct’12  Jan’12–May’12 |
| **Skills** | **Programming Skills:** Java, Python, C, C++, MATLAB, Visual Basic, MIPS ISA  **Web & Database Management:** Flask, JQuery, JavaScript, AJAX, CSS, LAMP, PostgresSQL, HTML  **Languages:** English (Fluent), Hindi (Native) andSanskrit (Advanced Level) |  |
| **Leadership**  • | **Vice President – Technology**, Enterprise to Empower (Student organization at Georgia Tech)  **Co-Founder, Vice President and head of Linux Programing & Quizzing – XINO: High School Computer Club**  **‘Director of Quiz’ – Senior school cabinet**  Conducted state level Science quiz with 30 participating schools and organized weekly meetings | Aug’12–Aug’13  Apr’10–Apr’11  Apr’10–Apr’11 |
| **Extra**  **Curricular**  **Activities**  • | **Winners of 2014 Fishackathon Silicon Valley**  Funded by US Department of State. Created best iOS and web interface to get real time fish freshness data. Won $1000  **Helped visually impaired professor, Dr. Anil Khurana, Delhi University,** with Research Thesisusing SPSS  **Part time Science, Mathematics and Social Sciences teacher** for visually impaired students  Recorded NCERT books on CDs in English & Hindi; Volunteer for excursions | 13Jun–15Jun’14 |
| **Areas of**  **Interest** | Machine Learning, Artificial Intelligence, Human Computer Interaction, Intelligent Robot and Story Planning, Computer Vision, Natural Language Processing, Neural Nets and Markov Chains, Advanced Data Structures, Algorithms Analysis & Optimizations, Digital Logic Design & Embedded Systems |  |
| **Honors** •  •  • | 4 times Faculty Honors. Every semester listed in Dean’s List at Georgia Tech.  Active member of **IEEE** & **Eta Kappa Nu, Tau Beta Pi** ECE honors society at Georgia Tech  Gold medalist in International & Zonal Informatics, International Mathematics Olympiads Six year scholar, silver, gold medalist in high school |  |