Siddhartha Gunti

Computer Science and Engineering with Honors	B.Tech
Indian Institute of Technology Bombay	7.56/10
Board of Intermediate Education	94.50 %
Board of Secondary Education	91.67 %

WORK, RESEARCH & ENTREPRENEURIAL EXPERIENCE

GOLDMAN SACHS PVT LTD, INDIA Senior Analyst

[Jun' 14 - Present]

PAXPLAY ENTERTAINMENT PVT LTD, INDIA (Game Studio Startup)

[Feb' 13 - Feb' 14]

Co-founder and Developer

- Responsible for development of UI and animation effects in the games, integrating with design department
- · Ideated and designed features for the companies' games and contributed to their timely upgrades and bug fixes

SAMSUNG ENGINEERING LABS, NOIDA, INDIA

[May' 13 - Jul' 13]

Intern - Android source mod & in-call application

- Developed a conversation data coupling feature for smart phones to enhance the calling experience
- Developed applications for providing Samsung devices a canvas to save and view timeline of call data
- Created an Android Jelly bean OS mod and an API for other applications to modify conversation data

UNIVERSITY OF ALBERTA, CANADA

[May' 12 - Jul' 12]

Research Intern - Simulation of Wireless Sensor Networks

Guide: Prof. Ehab Elmallah, CSE, UoA

- Created a simulation environment to analyze wireless sensor networks (WSN) using OMNET++
- · Conceptualized the theory for evaluating WSN considering sensor or node failures and intrusion paths
- Gave seminar at **University of Alberta Research Symposium** and discussed usage of simulation environment in reducing network cost and suggesting improvements for surveillance WSN

PUBLICATIONS

Discrimination Net - Global WordNet Conference (GWC)

[Jan' 14]

- Co-authored and published the long paper under Natural Language Processing domain
- Laid groundwork for a rule based framework to be called Discrimination Net, which will speed up process of deciding the correct meaning of a given word, Word Sense Disambiguation

"Hungry Hamster" - Google Play Store

[May' 13]

- Developed the action arcade game in Unity and published in android market
- The game has received more than 50,000 downloads over the world and has been rated 4.0 on a scale of 5
- · Led the development of GUI, fluid animation effects and new features for the game

ACADEMIC PROJECTS (http://www.github.com/siddug)

CONTEXT BASED MACHINE TRANSLATION FOR INDIAN LANGUAGES (BTP Project-II)

[Jan '14 – May' 14]

Guide: Prof. Pushpak Bhattacharyya, CSE, IITB

- Developed language independent context based machine translation platform
- Designed algorithms and made the platform extendable for low resource Indian languages
- Tested and optimized techniques to make the system faster for language pairs Hindi-English and Hindi-Marathi

MECHANISMS FOR SENSE DISCRIMINATION (BTP Project-I)

[Jul '13 - Dec' 13]

Guide: Prof. Pushpak Bhattacharyya, CSE, IITB

- Developed a **resource based framework** which will help in finding relevant meaning of a word in given sentence (**Sense disambiguation**) based on *clues* provided in the context
- Designed scoring techniques useful to automatically add potential clues of a particular meaning of a word

- Created a social networking website for writers where writers can collectively work on articles
- Led the development of features like **friends suggestions**, **public articles feed**, article notifications and stylistic article editing

INDIAN TRAFFIC SIMULATION | Data Structures Course Project (Used: C++, OpenCV)

[Oct' 11 - Nov' 11]

- Simulated a four-way Indian traffic intersection and displayed graph animations for representative metrics
- Handled GUI and designed algorithms considering real life situations and traffic mentality

BONKHEADS GAME | Functional Programming Course Project (Used: PLT Scheme-Lisp)

[Feb' 11 - Apr' 11]

- Developed a single player game similar to Mario using Object Oriented Programing in functional language
- Developed Al techniques which increase user difficulty and adapt clever strategies for eight levels

MISCELLANEOUS

- A* algorithm: Implemented A* in generic fashion and solved puzzles like Missionary Cannibal and 8-puzzle
- Yahoo HackU Project: Developed a chrome application to find topic of an article and meaning of words in it
- Spell Checker: Developed an application which suggests corrections for commonly misspelt words
- In-sem Intern: Developed an interactive shooting game, to be used as teaching tool, for a robotics academy
- Compiler: Implemented parsing, AST creation and SPIM code generation stages for restricted C programs
- Human body modeling: Modeled a minimalist human body with all joints and motion using open GL
- Virtual Memory Module for OS/161: Developed Memory Management module for OS/161, simplified operating system; Handled swap space management, page faults and page replacement

POSITIONS OF RESPONSIBILITY

HOSTEL DANCE HEAD [Jul '11 – Mar' 14]

- Worked as Hostel Music and Dance secretary and played pivotal role in organizing hostel music events
- Led the dance team and choreographed performances for the institute cultural fest and competitions
- Awarded Hostel **Special Mention** for the exemplary work during tenure

TEACHING ASSISTANT [Aug '13 – Dec '13]

- Acted as a guide for 52 first year students for the course 'Introduction to Calculus'
- Conducted and supervised mock guizzes and help sessions for weaker students

SCHOLASTIC ACHIEVEMENTS

- Completed **Honors Degree** in Computer Science and Engineering with five extra department course work
- Completed B.tech thesis in Natural Language Processing field and secured average grade of 8.33/10
- Secured an All India Rank of 191 in IIT Joint Entrance Examination 2010 out of nearly ½ million students
- Secured an All India Rank of 34 in ISAT-2010 conducted by Indian Institute of Space Technology
- Placed 24th in Mathematics Olympiad 2005 conducted by Association of Mathematics Teachers of India

EXTRA CURRICULAR ACTIVITIES

- Worked as Hostel Dance In-charge for Performance Arts Festival 2013; Secured 1st position in dance category
- Avid writer maintaining a blog with 9,000 hits and published articles in Hostel Magazine
- Worked as script writer and secured 5th place in Video Making Competition in Freshman Competitions 2010
- **Professor's Cube (5x5x5)** solver; Entered Guinness book of world records for being part of 900 members who solved rubix cube in 30 minutes

SKILL SET

Languages : Proficient in C/C++; Experienced in Java, PLT Scheme, SWI Prolog, Action Script 3.0

Web and Databases: HTML, CSS, PHP, Java Script, JDBC, MySQL

Development Tools: Android SDK, Android Source Development, Unity, OpenGL, OMNET++, Game maker