Mounika Somisetty

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Work Experience

FedEx Services — **Pittsburgh, PA**
Software Developer I/Software Developer II — *December 2017 – Present*
Currently working, as the lead developer and application architect, on a scrum team, that is a part of the Package Routing Systems team at FedEx Ground, developing cloud-based and cloud-ready micro-services to aide in high level company portfolios and modernization using DevSecOps principles

Qualcomm — **Hyderabad, India**
Associate Engineer (Windows Camera Team) — *July 2017 – November 2017*

International Institute of Information Technology, Hyderabad — **Hyderabad, India**
Teaching Assistant — *August 2016 – December 2016*
For the subject Statistical Methods in Artificial Intelligence under Prof. Avinash Sharma.

Samsung Research Institute - Bangalore — **Bangalore, India**
Summer Trainee (Web Services Department) — *May 2016 – July 2016*

International Institute of Information Technology, Hyderabad — **Hyderabad, India**
Teaching Assistant — *August 2015 – December 2015*
For the subject Computer Programming under Prof. Anoop M. Namboodiri.

Tierra Seed Science — **Hyderabad, India**
Web Designer — *May 2015 – September 2015*
Redesigned the GUI for company's main website and implemented a python-based content management system for the same.

Education

Georgia Institute of Technology — **Online/Part-time**
Masters in Computer Science, — *Incoming Spring 2020*

International Institute of Information Technology, Hyderabad — **Hyderabad, India**
B. Tech (Honors) Computer Science and Engineering, CGPA: 9.36/10 — *2013–2017*

FIITJEE Junior College — **Hyderabad, AP Board**
Senior Secondary, 97.2% — *2011–2013*

Orchids - The International School — **Hyderabad, CBSE Board**
Secondary, Cumulative GPA: 10/10 — *Grad. 2011*

Achievements and extra-curricular activities

- Second Author of ACL 2018 Workshop Paper: https://aclweb.org/anthology/W18-3810

- Top 5% of class, awarded Dean's List I in 2013 and 2014 and awarded Dean's List in 2015 and 2016

- Honors Student at the Center for Visual Information and Technology, IIIT-H

- Runner Up in Microsoft's Code. Fun. Do. Campus Hackathon

- Volunteer for the Guardian Circle, IIIT-H's Lean In Chapter, Girls Code Camp, FedEx Women in STEM

- Awarded distinction in the Trinity College Exam in Electronic Keyboard, for Grade 1, 2 and 3

- Member of Constitution Drafting Committee, Student Academic Counsel, Student Welcoming Committee, Editor-in-chief of the College Magazine for the year 2015 - 2016
- Ranked 3rd and 6th in the International English Olympiad in 2011 and 2012 respectively
- Ranked 3rd in State for National Cyber Olympiad in 2011

Projects

Major Projects

- **Machine Learning Based Tour Guide:** Was part of a team that developed a mobile application that acts like a tour guide for visitors to the campus based on the pictures they take, using machine learning and image processing techniques, with MATLAB.
- **Computer Generated Solutions:** As part of the internship, developed a web recruitment application to ease the process of hiring and interviewing potential employees using ASP.NET; Redesigned the GUI for company's current employee portal using Razor C#, also, lead the team.
- **Consolidated Student's Portal:** Led the team as a project manager, as well as, built a web application using the iterative incremental software development life cycle, to help easily identify weak students and monitor grades and attendance, using Django and Foundation Framework.
- **Automated Negotiation Bot:** Designed a negotiating agent for a realistic domain based on the GENIUS platform, capable of performing multiparty negotiation; also, was the tournament winner in the classroom setting.
- **Artificial Intelligence Agent - Ultimate Tic Tac Toe:** Created an AI Agent that plays Ultimate Tic Tac Toe, using a learning heuristic and min-max tree with depth limited search.

Other Projects

- **Discriminative Blur Detection Features:** Implemented a research paper by Shi et al published in CVPR'14. The paper explores representations of an image to discriminate between blurred and unblurred regions. We also look at methods by other researchers.
- **LLVM Compiler:** Worked in a team to create a compiler for Decaf Language that creates an LLVM assembly output, in C++.
- **Handwriting Recognition:** Created a system, that converts a document of handwritten words to textual output using a Convolution Neural Network and Hidden Markov Model, in Matlab and Python.
- **TCP/IP Server Client File Sharing Network:** Worked in a team to create a multi-purpose file transfer program with chat capabilities, an easy and intuitive web based user interface and a powerful command line interface, in C.
- **Spinning Top Game with Graphical Interface:** Developed a simple terminal based 3D spinning top game made with OpenGL3.
- **PHP Database Management System:** Created a website with a simple DBMS using PHP for a mock restaurant.

Technical skills

- **OS:** GNU/Linux, Mac, Windows
- **Fluent:** C, Python, Matlab, Bash, HTML, CSS, Javascript, jQuery, Version Control, Bootstrap
- **Intermediate:** C++, Java, C#, Django, Spring, ASP.NET, Razor C#, OpenGL 2/3, gdb, Foundation Framework, Spring Boot/Beans, Jenkins CI/CD
- **Basic:** Android, Windows Phone, Ruby On Rails, PHP, Assembly, OpenCV, Angular 5, PCF
- **DBMS:** MySQL, Microsoft SQL Server, AS400, Oracle, Redis