

# Parth Sethi

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## EDUCATION

<b>Master in Computer Science</b>	<b>University of Florida, Gainesville, FL</b>	Dec 2018
<ul style="list-style-type: none"><li>Coursework: Data structures and algorithms, Computer Architecture, Database Management Systems, Computer Networks, Virtual Reality, Programming language principles, Human Centric computing.</li><li>Gator VR Club; Academic Achiever Award, 2017</li></ul>		<b>GPA 3.62</b>
<b>B.Tech in Electronics and Communication</b>	<b>Jaypee University, Solan, India</b>	May 2017
<ul style="list-style-type: none"><li>Coursework: Object oriented programming, Operating Systems, Project Management, Telecommunication Networks.</li></ul>		<b>GPA 9.1/10</b>

## SKILLS

**Languages:** Java, C#, C/C++, SQL, HTML, CSS, JavaScript

**Technologies and Frameworks:** MATLAB, Unity 3D, mono, Git, Visual Studio, Eclipse, Bootstrap, Angular, Ionic, Cordova, Nativescript, NodeJS, Express, MongoDB

**Protocols:** TCP/IP, UDP, DHCP, P2P

**Certifications:** Java, Bootstrap, Angular, Ionic, Cordova, Nativescript, NodeJS, Express, MongoDB

## PROJECTS

<b>DineIn Restaurant</b>	<b>Bootstrap, Angular, NodeJS, MongoDB (MEAN stack)</b>	Summer 2018
<ul style="list-style-type: none"><li>Designed a web-site to facilitate customers to make an account or to view and order food online. Giving additional feature of 24X7 help-service.</li><li>Used MEAN stack, for front end used bootstrap, and angular, for back end used NodeJS, Express and MongoDB</li></ul>		
<b>JAVA based Compiler Design</b>	<b>Java, ASM, JVM Bytecode, Junit</b>	Spring 2018
<ul style="list-style-type: none"><li>Implemented a scanner using a top-down parser based on custom grammar to implement a strongly-typed programming language, using visitor pattern for type checking.</li></ul>		
<b>P2P File Sharing Software</b>	<b>Java</b>	Spring 2018
<ul style="list-style-type: none"><li>Implemented a P2P file sharing system similar to BitTorrent for file management operations between peers.</li><li>Used special message types for choking and unchoking to increase download speed across different computers by 50%.</li></ul>		
<b>MIPS simulator – Tomasulo algorithm</b>	<b>Java</b>	Fall 2017
<ul style="list-style-type: none"><li>Implemented Tomasulo's algorithm to schedule and execute MIPS commands in out of order execution fashion using multithreading and file handling in java.</li></ul>		
<b>Data compression algorithm</b>	<b>Java</b>	Spring 2017
<ul style="list-style-type: none"><li>Implemented Huffman encoding technique to compress a binary file and used a cache optimized 4-way min heap for decoding the given file efficiently by 80%.</li></ul>		

## EXPERIENCE

<b>NIIT, India</b>	<b>Software Intern</b>	Summer 2014
<ul style="list-style-type: none"><li>Developed an auction related sale and an e-bank system interfaces in Java using SQL databases for user accounts and trading information in Java.</li></ul>		
<b>Texas Instruments, NSIT, Delhi, India</b>	<b>Software Intern</b>	Summer 2015
<ul style="list-style-type: none"><li>Developed an algorithm in C to print animations over oscilloscope with help of digital signal controller.</li></ul>		
<b>LG Electronics, Noida, India</b>	<b>Summer Intern</b>	Summer 2016
<ul style="list-style-type: none"><li>Assisted in evaluation of Field Failure Report for two products to maintain proper market flow for those products by collecting real time data from the servers.</li></ul>		
<b>Teacher Assistant, University of Florida</b>		Fall 2018
<ul style="list-style-type: none"><li>Serving as a teacher assistant for a course Database Management Systems under Prof. Markus Schneider.</li></ul>		

## PUBLICATIONS

- "Alternate ethos of intelligence: humanoid robot – "ENQUETE" – Parth Sethi, SPIN conference 2017.
- "Sign Language Analysis and Recognition to Aid Specially Abled Communicators" in IEEE conference INDIACom – 2017.
- "Safe Sole Distress Alarm System for female security Using IoT" in Springer 2017.

## INVOLVEMENT

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|---|-----------------------|
| • Vice chairperson, IEEE-JUIT SB (student branch)     | Aug 2015 – April 2016 |
| • Robotics team leader, IEEE-JUIT SB (student branch) | Nov 2014 – June 2015  |