

Parth Sethi

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EDUCATION

Master in Computer Science	<i>University of Florida, Gainesville, FL</i>	Dec 2018
<ul style="list-style-type: none">Coursework: Data structures and algorithms, Computer Architecture, Database Management Systems, Computer Networks, Virtual Reality, Programming language principles, Operating Systems, Object oriented programming, Project Management.Gator VR Club; Academic Achiever Award, 2017		GPA 3.63
B.Tech in Electronics and Communication	<i>Jaypee University, Solan, India</i>	May 2017 9.1/10

SKILLS

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

Technologies and Frameworks: MATLAB, Unity 3D, mono, Git, Visual Studio, Junit testing, Eclipse, PyCharm

Protocols: TCP/IP, UDP, DHCP, P2P

PROJECTS

JAVA based Compiler Design	<i>Java, ASM, JVM Bytecode, Junit</i>	Spring 2018
<ul style="list-style-type: none">Implemented a scanner using a top-down parser based on custom grammar to implement strongly-typed programming language, using visitor pattern for type checking.		
P2P File Sharing Software	<i>Java</i>	Spring 2018
<ul style="list-style-type: none">Implemented a P2P file sharing system similar to BitTorrent for file management operations between peers.Used special message types for choking and unchoking to increase download speed across different computers by 50%.		
VR Afridokta	<i>C#, Unity, Mono, SQLite</i>	Fall 2017
<ul style="list-style-type: none">Worked with Afridokta to develop a VR app to select any body part and generate possible related common illness and email information to the doctor.Used C# as scripting language to predict the illness and send information to the doctor with help of a decision tree predictive model.Used Agile management and scrum process for smooth team work.		
MIPS simulator – Tomasulo algorithm	<i>Java</i>	Fall 2017
<ul style="list-style-type: none">Implemented Tomasulo's algorithm to schedule and execute MIPS commands in out of order execution fashion using multithreading and file handling in java.		
Data compression algorithm	<i>Java</i>	Spring 2017
<ul style="list-style-type: none">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%.		

EXPERIENCE

NIIT, India	Software Intern	Summer 2014
<ul style="list-style-type: none">Developed an auction related sale and an e-bank system interfaces in Java using SQL databases for user accounts and trading information in Java.		
Texas Instruments, NSIT, Delhi, India	Software Intern	Summer 2015
<ul style="list-style-type: none">Developed an algorithm in C to print animations over oscilloscope with help of digital signal controller.		
LG Electronics, Noida, India	Summer Intern	Summer 2016
<ul style="list-style-type: none">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.		

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 |