**PALASH ASHOK BHATIA**

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Computer Science Graduate Student at New Jersey Institute of Technology seeking Fall Co-op opportunities starting September 2017.

# Education

**Master of Science- Computer Science** *Graduation: May 2018 (Expected)*

New Jersey Institute of Technology, Newark, NJ GPA 3.2/4.0

**Bachelor of Engineering- Electronics and Telecommunication** *Graduation: May 2015*

Maharashtra Institute of Technology, Pune, IND First Class with Distinction

# Relevant Courses

Cognitive Computing, Internet and Higher Layer Protocols, Java Programming, Data Structures and Algorithms, Operating System, Database Management and System Design. Future Coursework: Data Mining, Cloud Computing, Data Analytics using R and Big Data.

# Technical Skills

* Programming Languages: C, Java, C++, JavaScript, Node.Js, Python, SQL, Embedded C, Assembly, VHDL.
* Softwares: AWS Lambda, IntelliJ, Eclipse, MySQL, Atom, Sublime Text, Wireshark, Matlab, Atmel Studio, Xilinx.
* Operating Systems: Microsoft Windows, Linux, Mac Os X.
* Tools: Git, Yacc, FFMpeg, Lex, GDB, Trello, Flowdock.

# Work Experience

***Global Product & Technology Intern – Product Development*** *at ADP, LLC: June’17 – present*

* Developed a real-time platform that takes speech as input using the Amazon Alexa Voice Assistant SDK for ADP shops, the inter client web service application integrated with AWS Lambda an event-driven server less computing console programmed with Node.js the cross-platform JavaScript run-time environment for executing JavaScript code server-side. Requisite data was mapped obtained from the Google Maps API and stored with the NoSQL architecture using MongoDB.

***Systems Integration Engineer*** *at Dhupar Brothers Trading Pvt Ltd: June’15 – June’16*

* Designed home automation solutions by integrating high-performing subsystems for alarms, audio, lighting control with a single, easy-to-use app interface for superior control. The design involved whole-house control of entertainment, security, comfort, and convenience, through Legrand solutions and select third-party components.

# Certification

Microsoft Technology Associate in Networking Fundamentals  *February’15*

# Academic Projects

**Graduate Coursework:**

*Cognitive Computing - Options Trading Strategy: January’17- May’17*

* Constructed a cognitive model to trade and exercise Call & Put Options to form a trading strategy for JP Morgan Chase by creating context free BNF grammar using yacc to parse the HTML data obtained from NASDAQ and extract the options chain sheet.
* Association rules were generated for the sheet that align with user-defined support & confidence values using Apiori Algorithm.

*Network based Web Proxy to handle HTTP, FTP requests: September’16- December’16*

* Devised a proxy complying to the HTTP/1.1 using Socket Programming developed in C using AFS Linux System. The Proxy was mutated to perform protocol mediation that is, when a browser receives a FTP request the proxy will parse the request and perform the FTP transaction by procuring the file from the server and return it as a HTTP response.

*Hospital Management System: September’16- December’16*

* Developed a GUI based interactive application which simulates the working of a hospital with essentials such as Patient and Doctor Records, Nurse and Ward Boy Information as well as Billing and Room/Ward details. The technologies used were Java and MySQL.

**Undergraduate Coursework:**

*Intruder Detection using Face Recognition****:*** *(Sponsored by Texas Instruments)**August’14-May’15*

* Formulated real time facial detection and recognition standalone system using Principal Component Analysis, Harr based Cascade Classification, Eigenvectors and Eigen faces, K-Nearest Neighbors and Microcontroller programming. Algorithm developed and implemented in Python using OpenCV Library. Accomplished **88%** success in real time facial recognition.

*Image Processing based Vending Machine: December’13-May’14*

* Implementation of an automated vending machine using Networking and Image Processing techniques. Coin recognition algorithm developed and implemented using Matlab. Micro-Controller based software development in Embedded C using Atmel Studio.

# Recognitions, Awards and Leadership Experience

* Vice President–Administration, elected representative for the Technical Community of the College of Computing Sciences, 2017-18.
* Technology Officer of the Graduate Student Association at NJIT for the academic year 2016-2017.
* Represented NJIT as a Graduate Student Delegate at the United Nations for the Youth Leadership and Peace Summit, 2016.
* Selected for paper presentation at the International Conference on Computational Photography at Rice University, USA, 2015.
* Selected for industry track paper presentation at ICACCI, 2015, Awarded ‘Best Project – Research Track’ at MIT Pune, 2015.
* Participated in Texas Instruments Innovation Challenge IDC and reached the quarter final stage amongst 3100 proposals,2015.
* Chairperson of the National Level Technical Festival ‘Texephyr’, 2015, Vice-President of Cultural Festival ‘M.E.R.C.’, 2015.
* Head of the Association of Electronics Students at MIT Pune, 2015, 1st Runner’s Up at the MIT Pune’s ‘Best Manager’ Event, 2013.