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.