NIKHIL ATTRI

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EDUCATION

Master of Science in Computer Science	**University of Florida, Gainesville, FL**	Dec 2018

Coursework: Advanced Data Structures, Analysis of Algorithms, Human Computer Interaction, Database **GPA 3.5 / 4.0**
Management, Research Methodology for Human Centric Computing, Statistic, IOT

Bachelor's in Computer Science	**Jaypee Institute of Information Technology, Noida, India**	May 2017

Coursework: Object Oriented Programming, Data Structures, Mobile Computing, Compiler Design, Computer **GPA 7.2/10.0**
Networks, Operating Systems, Microprocessor and Controller.

SKILLS

Languages: Java, C++, R, Python, SQL, SWIFT, JavaScript
Web Development: HTML, CSS, PHP, Angular, XML, Bootstrap
Database: MySQL, SQLite, Oracle Database
Tools and Frameworks: Git, Oracle SQL Developer, Android Studio, Eclipse, XCode.

WORK EXPERIENCE

Software Developer Intern   Aug 18 - Dec 18

JOINT | Atlanta, USA **[IOS, SWIFT]**

- Developed an IOS application for JOINT which helps in connecting users those have similar fitness goals
- Worked with outside data sources and API's and designing creative prototypes according to specifications
- Developed a technical document and handbook to accurately represent Application design and code

Software Developer Intern   Jun 16 - Aug 16

Transnational Computers | Noida, India **[SQL, Web Development]**

- Built Web Application from scratch for company's internal use which automates the collection of data (employee attendance data etc.)

Android Developer Intern   Dec 15 - Feb 16

Zapdel | Noida, India **[Android, JAVA]**

- Contributed to the food menu module of the Zapdel (Online Food Delivery Platform) Android Application
- Developed various features like Table Reservation and Social Media Integration

INDIVIDUAL PROJECTS

- **Emotion Detection from Speech Using Machine Learning and Neural Networks**   May 18 -Aug 18
  An algorithmic approach for detection and analysis of human (7 different) emotions with the
  help of speech processing, resulting in 80% efficiency with the use of Continuous Hidden Markov Model
- **Automatic Speech Recognition (ASR) Using Machine Learning**   May 18 -Aug 18
  Detected speech from MFCC features Using Hidden Markov Model
- **Sudoku Solver Using Java and Android**   Jan 18 -May 18
  Android Application which uses Backtracking Algorithm to Solve any 9*9 Sudoku Problem
- **Othello Using Java and Android**   Jan 17 -Mar 17
  Developed Reverse/Othello (A board strategy game) using OOPS Concept

ACADEMIC PROJECTS

Peer to Peer File Sharing Software Using Java   Aug 18 - Dec 18

- Implemented P2P File Sharing Software, a simplified version of the Bit Torrent
- Main Features are Choking, Unchoking and Preferred Neighboring Selection Mechanism. Tested using a minimum of 6 peers and a large file of size greater than 1 Gb

Smart Stick for Visually Impaired Users Using IOT and Android   Jan 18 - May 18

- Helped Blind Users to navigate to new locations outside their home by vibrating motors
- Implemented voice control module where user can input destination through voice, used Google Places API to autocomplete what location the user is looking for.
- User can also send their location for emergency alert to their family members

Encryption and Decryption Using Huffman Coding Using Java   Aug 17 - Dec 17

- Implemented Huffman Coding using 3 different data structures and compare the performance; Binary Heap, 4-way cache optimized heap and pairing heap.

Alumni Network Using SQL, Python (Flask), Knockout JS and Android   Jan 17 - Mar 17

- Developed a social network platform of Alumni, Features included Viewing profile and Sending References.
- A full-fledged Android Application was developed and connected to the backend

Craigslist Revamp Using React, HTML and CSS   Jan 17 - Mar 17

- User Interface of "Craigslist" was made better by revamping the color scheme and the layout of website
- A more user-friendly search filter was made using sliders and drop-down menus
- Recommendation System, Wishlist and Social Authentication features were implemented