Khushi Patel

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EDUCATION

- **Masters of Science, Computer Software Engineering**   **May 2018**
  Ira A. Fulton Schools of Engineering, *Arizona State University*, Tempe, AZ   **GPA 4**
- **Bachelor of Technology, Computer Engineering,**   **May 2016**
  Highest GPA in the Class
  Indus University, Ahmedabad, India   **GPA 3.96**

TECHNICAL EXPERTISE

- **Programming Languages:** Java, Python, C++, C, C#.
- **Web Technologies:** HTML, CSS, PHP, JavaScript, jQuery.
- **Source Control**: GitHub, SVN
- **Databases**: MySQL, MS Access, PostgreSQL, MongoDB
- **Frameworks**: ASP.NET MVC**,** Apache Spark, Hadoop
- **Software Development Methodologies:** Agile, TDD, SDLC

Relevant courses: Advanced Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Concepts and Programming, Principles of Database Management, Computer Network and Security, Software Enterprise, Software Design, Distributed and Parallel Database System, Software Enterprise: Project and Process management.

EXPERIENCE

Web Application Developer, Programming Aide, Herberger Institute of Design, ASU   **Jan 2017- Present**
- Creating and maintaining web based pages, sites and tools and applications as well as updating for various platforms like Java, HTML, CSS, JavaScript, ASP.NET MVC. Reviewing document failures of costumed developed solutions and take corrective actions as directed.

Volunteer Data Analyst, Cyber Socio Intelligent System, (CySIS) Lab, CIDSE, ASU   **Sept 2016- Dec 2016**
- Worked on cutting edge cyber threat intelligence and machine learning/ data mining to understand malicious hacking, relating to dark web.
- Created an intelligence system that has a significant impact on real-world problems in order to curb threat posed by cyber.

Software Engineer, Space Application Centre**,** ISRO, India   **Feb 2016- May 2016**
- Developed a Content Management System for an Antenna System Group Department.
- Designed front end and back end of the system, Website and Administrator Dashboard respectively so that the content of the website is dynamically controlled by an administrator using .Net Framework (C#).

PROJECTS

RecDB in Action: Recommendation Made Easy in Distributed Database Systems   **Fall 2017**
- Database system that provides a personalized recommendation to users, using various recommendation algorithms.
- Implemented RecDB using a MongoDB, enables developers to have a document database with the scalability and flexibility.

Geospark, Cluster Computing for Spatial Data Analysis   **Spring 2017**
- Implemented a multimode master-slave setup using Hadoop and Apache Spark. Performed geospatial analysis queries (using Amazon EC2).
- Solved the GIS cup challenge, implemented an algorithm to determine the top 50 most popular taxi-pickup spots.

Social Robot - (Design- Cura and 3D Printer)   **Fall 2016**
- Designed and built a robot and embedding human-alike gestures into it, in order to understand design principles, activities, and deliverables during the life cycle practiced in an industry today.

A mini version of LimeWire – (ASP.Net, C#)   **Spring 2015**
- Developed a website application, to exchange information in the form of raw data or documents. Controlled the data traffic mainly in terms of storage and information to be shared is monitored by the individual user in order to facilitate communication among the users.

Encryption-Decryption Algorithm   **Spring 2015**
- Designed an algorithm named "Diagon Cipher", a symmetric key block cipher encryption algorithm.
- The Input to this algorithm is a plain text of variable length which is disintegrated into fixed sized blocks of 16 bytes arranged into a 4X4 matrix and the output of the algorithm is a 4X4 matrix, row-wise.
- Increased the complexity of an algorithm as the input undergoes various diagonal shifts which lead to various permutation and the range of the random numbers generated.

Client-Server Communication using TCP connected over a LAN – (Socket Programming in Java)   **Fall 2014**
- Developed a desktop application which facilitates File Sharing between a client and a server using TCP Protocol.
- Helped me to understand the creation of sockets and its utility (usage of streams for file transfer) and the application is confined to point to point connection. It can be expanded to work for multipoint connection.

PUBLICATIONS

- A survey paper on "Software Defined Networking (SDN)" which has been published by the IRACST- International Journal of Computer Networks and A Wireless Communication (IJCNWC), Vol.5 No.6   **2015**

AWARDS

- Swapping of Brains Competition- won First Place - Indus University, Ahmedabad, India   **Apr 2014**
- Code-O-Crats, a state level competition in Collosium by Computer Society of India- won First Place - Nirma University, Ahmedabad, India   **Aug 2013**
- Awarded GOLD MEDAL, Recognition of outstanding Academic Excellence, Highest GPA in the class - First Place - Indus University, Ahmedabad, India   **2012-2013**