

Harsh Shah

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Objective

- Graduating in May 2018 as a Master's in Computer Science and seeking a position as a Software Developer, that encourages learning and research environment so that I grow with the organization and gain valuable expertise.

Education

- **University at Albany, State University of New York** **Expected Graduation: May 2017**
Masters of Science (MS), Computer Science
- **Gujarat Technological University, India** **August 2011 – June 2015**
Bachelors of Engineering (BE), Computer Engineering

Technical Skills

Languages & Framework : Java, MVC, C, C++, JavaFX, SQL, Django
Web Technologies : J2EE, HTML5, CSS3, JavaScript, AngularJS, Angular 4/5, TypeScript, JDBC, JSON, jQuery, AJAX, XML, Bootstrap, Materialize CSS, JSF, DOM
Databases : PostgreSQL, MySQL, Oracle 11g
Scripting Languages : Python (2 & 3), PHP
Tools : IntelliJ, WebStorm, Visual Studio Code, Eclipse, Gephi, Wireshark, MATLAB, Apache Tomcat Server
Development Lifecycle : Agile Methodology, Waterfall Model
Version Control Tool : Git, SVN

Experience

- **Research Assistant | University at Albany, SUNY** **August 2017 - Present**
 - Developed an Angular web application using AngularJS, REST API.
 - **KBDex** an **Open Source software**, originally built using Java.
 - Developed the Front-End of this open source software using AngularJS.
 - Connected the Front-End with the Existing Back-End with the use of REST.
- **Webmaster at Graduate Student Association | University at Albany, SUNY** **February 2017 – Present**
 - The Main task of this job is to develop and maintain the website for Graduate Student Association.
- **Full Stack Developer | DITS (Dhruvil IT Solutions, India)** **July 2015 – June 2016**
 - Developed several J2EE Web Applications and Maintained them.
 - Participated in all phases of Software Development Life Cycle (SDLC) including analysis, design, development and testing.
 - Worked in Agile Software Development environment for planning and development.
 - Participated in Functional Document reviews and created Technical Development.
- **Software Developer Intern | DITS (Dhruvil IT Solutions, India)** **January 2015 – June 2015**
 - The Focus of this internship is to learn Software Development Process in the real world.
 - Developed several simple web applications using PHP.
 - Learned concepts of Java Web Development (J2EE) and implemented as per client requirements.

Projects

- **Bio-Feedback+** **August 2014 – May 2015**
 - It is a device which gives feedback of posture using a sensor (3-Axial Accelerometer) which detects real-time user's movement.
 - With the help of desktop application, user can get notifications about his/her posture on any computer which is connected.
 - **Hardware & Technologies:** Java, JavaFX, Microprocessor PIC18F4520, 3-Axial Accelerometer, XBEE controller.
 - **Link:** <https://github.com/ceharsh24/Bio-Feedback>
- **Employee Management System** **January 2017 – May 2017**
 - Java MVC based web application, which provide manager to create any numbers of directories, manager also can restrict the access of those directories, there can be any level of manger – employee hierarchy.
 - Manager can assign bonus to his/her immediate employee. Manager can also manage leave requests.
 - Admin can assign manager to newly registered employee. Admin is responsible to run the payroll.
 - Employee can request the leave, he/she can view/upload/download the files in directories he he/she has the access.
 - Strengthened the application by implementing both client and server-side validations.
 - **Technologies:** Java, Servlets, JSP, HTML5, CSS3.
 - **Link:** <https://github.com/ceharsh24/Employee-Management-System>
- **Travel Guide System** **January 2017 – May 2017**
 - Travel Guide System provides information about Popular Locations, Hotels, Restaurants, Bars, Car Rental Services and Tour Guide Services in and around a city. The system will help the user to plan their trip online with ease and at discounted prices by choosing offers from various service providers.
 - **Technologies:** Java, Servlets, JSP, Javascript HTML5, CSS3, Bootstrap, jQuery, Ajax, MVC.
 - **Link:** <https://github.com/ceharsh24/TravelGuideSystem>

➤ **Internet Analysis using PlanetLab**

January 2017 – May 2017

- Implementation of Internet Measurement Framework where 10 nodes performed periodic pairwise path measurements using ping and traceroute over the period of two weeks.
- Based on these measurements, the framework was analysed for major factors such as outages, reliability, route fluttering, inconsistencies and triangular routing. This project required extensive use of shell scripting and python programming for parsing the data.
- **Technologies:** Shell Scripting, Python.
- **Link:** <https://github.com/ceharsh24/Internet-Analysis-using-PlanetLab>

➤ **Global Terrorism's Influence on Twitter**

January 2017 – May 2017

- This project is related to concepts of network science. The purpose of this project is to create a network graph that represent the characteristics of communication between more than 200 fanboys of ISIS.
- Worked on Kaggle dataset "How ISIS uses network".
- **Technologies:** Python, Scikit and Pandas Libraries, Gephi
- **Link:** <https://github.com/ceharsh24/Global-Terrorism-s-Influence-on-Twitter>

➤ **New York Yellow Taxi Trips: Recommendation System**

January 2017 – May 2017

- Worked on the Kaggle dataset by NYC Taxi and Limousine Commission.
- The purpose of this project is to develop a system which predicts whether the driver will get a tip or not using Python programming language.
- **Technologies:** Python, NumPy & Scikit libraries of python.
- **Link:** <https://github.com/ceharsh24/New-York-Yellow-Taxi-Trips-Recommendation-System>

Extra- Curricular Works & Leadership

➤ **Online Courses**

- Angular 4/5 (formerly Angular 2) – The Complete Guide by Udemy.
- Python and Django Full Stack Web Development course by Udemy.
- Complete Python Masterclass course offered by Udemy.
- AWS Certified Solutions Architect – Associate 2017 by Udemy.

➤ **Team Leader of Nueron Twisterz (Quiz Competition) – 2013 GTU Tech fest Gandhinagar Zone.**

- Lead a quiz competition during a zonal level tech fest of Gujarat Technological University.
- More than 150 teams (2 person per team) participated in quiz competition.