

Hamza Mirza

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EDUCATION

New York University, Tandon School of Engineering, New York, USA
Master of Science in Computer Science

MAY 2019

M.H. Saboo Siddik College of Engineering, University of Mumbai, India
Bachelor of Engineering in Computer Engineering

MAY 2017

PROFESSIONAL EXPERIENCE

New York University Information Technology, New York, USA

March 2018 – Present

Web Publishing Student Specialist

Web Publishing provides an easy way for faculty, staff and students to create a website or blog using predefined design themes and plugins.

- Working with instructional technology staff to ensure the highest-level service for our clients.
- Designing and implementing WordPress sites on a regular basis.
- Testing features that best fit teaching and learning use-cases, themes and plugins for security, functionality, compatibility, and usability.

CPConverge, Mumbai

May 2016 - July 2016

Summer Intern

CPConverge is an analytics firm based in Mumbai which provides useful insights to the clients.

- Developed an internal Customer Relationship Management System, used to analyze various customer interactions.
- Implemented algorithms to predict customers trend and generate graphs and charts.
- Designed aesthetic User Interface using HTML 5 and Bootstrap 3.0 with a customized user and admin dashboard.
- Technologies used: HTML, JavaScript, jQuery, Ajax, CSS, MySQL.

Intersoft Institute, Surat, India

May 2015 -July 2015

Trainee

Intersoft institute is an organization which specializes in the training of various courses in laptops, computers and data recovery.

- Studied an advanced chip level laptop servicing course, along with data recovery.
- Understood software recovery methods and hardware concepts. Diagnosed problems relating to head swaps or recalibration, platter swaps, head stiction etc. Formulated flowcharts and test cases for fault finding and debugging.
- Developed a software application for the same using C# programming in Microsoft Visual Studio 2010 IDE.
- Awarded with best trainee award among 30 others.

PROJECTS AND PUBLICATIONS

Video processing in visual systems for color detection and distinguishing patterns with similar color (Project and Paper)

- Developed a novel algorithm that takes visual media files as the input and displays a recolored file as the output so that the color-blind viewers will be able to perceive areas which they were unable to previously.
- Researched how eyes percept color and the cause of color vision deficiency.
- Implemented the project on MATLAB.

Music streaming website using Spotify API

- Designed a responsive music streaming website as part of *Principles of Database System* coursework.
- Connected the app to MySQL database and used Spotify API to play music.
- Modelled complex ER diagram with various features such as showing You May Also like songs and artists.

Comparative study of lip reading techniques (Paper)

- Learned how speech works and the movement of organs involved such as mouth, teeth, and tongue.
- Studied and discussed various existing computer lip-reading techniques such as Joint Geometry and Gray-Level Histogram Model and Word Segmentation Algorithm. Conducted a study on the same.

Online healthcare management system (Project)

- Analyzed the feasibility, framed a system proposal and designed various UML diagrams such as activity diagram, use case diagram, sequence diagram, data flow diagram, control flow diagram and the User Interface.
- Used Java for the front end and Oracle 11g as the backend.
- Implemented a notification system to keep people notified in case of any events, announcement as well as reminders.

TECHNICAL SKILLS

- **Programming Languages:** Java (Proficient), C, Python
- **Big Data:** Hadoop, Spark, PySpark, Pig Latin
- **Web Technologies:** HTML5, CSS3, JavaScript, JQuery, Ajax, WordPress
- **Frameworks and Backends:** Bootstrap 3, Django, Parse, Heroku.
- **Database:** MySQL, MongoDB | **Other:** Jira, Git, AWS

EXTRACURRICULAR AND SOCIAL SERVICE

- Secretary of NYU Muslim Graduate Student Group
- Founded 'ThinkCode', a CodeChef campus chapter. Organized programming events such as meetups and workshops.
- The former head of the Computer Society of India Programmers Club.