

# SAMARTH SHAH

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## EDUCATION

### Master of Science in Computer Science | Syracuse University

January 2019 – December 2020

Relevant Courses – Design and Analysis of Algorithms, Operating Systems, Internet Programming, Computer Architecture, Database Management Systems, Social Media & Data Mining, Natural Language Processing, Structural Programming & Formal Methods

### Bachelor of Technology in Computer Engineering | ITM Vocational University

August 2014 – May 2018

Relevant Courses – Data Structures, Web Technologies, JAVA Programming, Object Oriented Programming, Mobile Application Programming

## WORK EXPERIENCE

### Web Developer | iConsult, Syracuse University, Syracuse

April 2020 – November 2020

- Developed websites from front to backend using PHP, JavaScript, and HTML. Enhanced user experience and accomplished webpage objectives by creating site structure, navigation, page optimization and graphics integration.
- Led end-to-end web application development and creative design decisions. Participated in design reviews and code reviews for scheduled upcoming features. Improved the website speed by 12% using the asynchronous loading for CSS and JavaScript file.
- Prototyped new product features such as Call to Action and Live chat with ReactJS and WordPress for Content Management Systems
- Designed processes for cleanup and performance improvements, that minimized downtime by 8%

### Web Developer Intern | Aditya Infotech, Vadodara, India

January 2018 – November 2018

- Developed dynamic and interactive websites with N-tier architecture that ensured high traffic, page views, and user experience, resulting in 23% increase in performance, designed modular elements using react and optimized cross-browser, multi-platform compatibility
- Oversaw full lifecycle of software development of 3 projects. Followed the scrum management process
- Fixed bugs from existing websites and implemented enhancements that significantly improved web functionality and speed
- Facilitated in-theme customization, plug-in configuration, and customization of database structure for websites
- Collaborated with a team of 6 engineers and worked closely to meet project requirements, goals, and desired functionality

## SKILLS

**Programming/ Languages:** Java, C++(Object Oriented Design), Python, Android Programming  
**Frameworks:** Django, Bootstrap, ReactJS, Ruby, REST, MVC  
**Databases:** MySQL, MongoDB (NoSQL), Microsoft SQL Server, SQLite, Postgresql  
**Web Technologies:** HTML5, XML, CSS3, PHP, JavaScript, Ajax, Angular, Node, JSON  
**Tools and IDEs:** GIT, Eclipse, Microsoft Visual Studio, Android Studio, Atom, MS Office  
**OS and Other:** Docker, Windows, Linux

## PROJECTS:

### TedTalk Analyzer (Python, Pandas, Numpy, tkinter, Sklearn, Matplotlib)

Jan 2020 – May 2020

- Collected and preprocessed TED Talks Dataset. Analyzed Dataset for speaker information
- Mined data to fetch most popular tags, filtered data to display it in graphical form. Used Twitter API to fetch trending tags/tweets
- Designed KNN Algorithm to determine feedback and recommend TED Talks based on the algorithm and the user input.

### E-commerce Android Application (JAVA, XML, Firebase, Android Studio)

Dec 2019 – Feb 2020

- Developed and designed a scalable e-commerce application (Amazon Clone) using Java. Streamlined the process of logging in by a simple registration form. Integrated data to the Firebase and prevented unauthorized operations with real-time database rules
- Used the Agile development methodology to produce efficient and flexible solutions. Troubleshooted and resolved the problems faced during the development phase. Optimized the layout hierarchy for consistent and high-performance UI controls and layouts
- Improved the loading time of the application during cold start by initializing only those objects needed immediately and flattening the view hierarchy. Efficiently reused the layouts using merge and include tags.

### Railway Ticket Reservation System (C++)

August 2019 – November 2019

- Simulated seat reservations systems and train scheduling using threads to better understand the job scheduling implementation of an operating system on thread level. Implemented 2 types of seat class - Business & Coach
- Admin thread responsible for simulating reservation, reservation threads for generating requests, assigning seats and train threads to operate trains in accordance with its schedule. Used the bitmap data structure to keep track of the availability of seats
- Designed classes to provide simulation summary, i.e., Total Requests, Total Granted Requests, Total Passengers, Busiest Route etc.

### eBook Reader (Asp. NET Core MVC, HTML, CSS)

Feb 2019 – May 2019

- Designed and developed a website with 2 sections, public static section using HTML5, CSS3 and ES6 & a password protected section using Asp. Net Core MVC. Added controls to change viewing scale i.e., Responsive Design. Supported various file types
- Implemented the comment section for document review which is visible to only authenticated users and admin. Built clients for the webservice using Asp. Net Web API, which used to manage site content
- Built the functionality to upload, replace, and delete any stored documents using .Net Core HttpClient class.