**SAGAR TALWAR**

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**Technical Proficiency**

* **Programming Languages** : C, C++, C#, Python, Java
* **Web Technologies** : HTML5, CSS, JavaScript, TypeScript, AngularJS, JSON, jQuery, RESTful, React JS
* **Frameworks & other Tools** : ASP.NET MVC, WCF, LINQ, Xamarin, Redis, Azure, Saas, Docker, Hadoop, AWS
* **Database Technologies** : MySQL, SQL Server, Oracle, MongoDB (NoSQL)
* **Version Control** : TFS, Mercurial, CVS, Git, GitHub
* **Interpersonal** : Excellent written and Verbal communication skills, Self-motivated to learn new things

**Education**

**Master of Science in Computer Science** **(3.8/4.0) January 2019 – December 2020 (EXP)**

**University of North Carolina at Charlotte, Charlotte, NC**

* Coursework**:** Data Structures and Algorithms, Software Systems Design and Implementation, Machine Learning, Natural Language Processing, Intelligent Systems, Computer Vision, Knowledge discovery in databases.

**Bachelor of Engineering in Computer Science** **(3.7/4.0) August 2011 – May 2015**

**Savitribai Phule Pune University, Pune, India**

* Coursework**:** Database Management Systems, Artificial Intelligence, Operating Systems, Object Oriented Design and Development (OOD), Computer Architecture, Computer Networks, Programming and problem solving

**Work Experience**

**Software Engineer I | Bentley Systems, Inc. Pune, India August 2015 – December 2018**

Full Stack Developer for web Applications, road network and asset editing app focused on transportations and road networks.

* Built user Interface using **OpenLayers Map, HTML, CSS, AngularJS, Java Script, TypeScript, Bootstrap, Kendo**.
* Developed **REST APIs** in **C#** and integrated it to show network data in the map UI.
* Web Development, fixed critical bugs with Agile **development** with **Agile methodology** **scrum**.

Developer for a desktop application which compares two schema files in **XML** format and maintain the interoperability.

* Developed an installer using Windows forms in **.NET.**
* Developed a **windows forms** application using **C#**, **Test Driven Development** Approach, unit testing in **NUnit**.
* This application helped save 20% of developers time to maintain the interoperability of schema files.

Developer for a 3D CAD software plugin, which identifies the differences in the 3D design files.

* Developed a **3D CAD** software plugin, coding in **C++**.
* This app helped save 30% of developers time to find differences caused by moving from desktop version to cloud.

**Projects**

**Conversational Question-Answering using CoQA [Python, Pytorch, Google BERT] August 2019 - December 2019**

* Developed a model to answer multi-turn conversational questions using **Python PyTorch, Google BERT**.
* Achieved more than average accurate model than the already developed conversational model using Google BERT.

**Text Classification on IMDB dataset [Python] August 2019 – September 2019**

* Developed a model to classify positive and negative reviews with **Naïve Bayes, SVM and Linear regression classifier**
* Achieved 60% accurate model to classify the reviews.

**K-Coloring of states in the USA map [HTML, CSS, JavaScript] January 2019 – February 2019**

* Developed a model to answer multi-turn conversational questions using **Python PyTorch, Google BERT**.
* Achieved more than average accurate model than the already developed conversational model using Google BERT.

**Neuro Development Assessment of a Newborn [ HTML, CSS, Angular 6, JavaScript, C#] January 2019 – April 2019**

* Developed a web application to analyze the growth of a newborn.
* Worked on phases of **Software Development life Cycle (SDLC)**; requirements, development, integration testing.

**Enhancing privacy in Personalized Web Search [ HTML, CSS, JavaScript, Java] June 2014 – April 2015**

* Designed the system by creating **SRS report** and **UML diagrams**.

**Achievements**

* Won 2nd Prize for designing a Traffic Management system in **Software Design** contest held in Bentley Systems
* Research and Publication – Paper on **“Enhancing Privacy in Personalized Web Search”** at IJAFRSE.