

KUSHAGRA CHOPRA

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WORK EXPERIENCE

- **Cerner Healthcare Solution Pvt. Ltd. | Software Engineer | Bangalore, India** **July, 2017 – May, 2018**
 - Developed and Deployed multiple WPF applications in .NET Framework including Cerner IA Configuration GUI, that serves as one of the 3 main components of Cerner Instant Access. It could store multiple user profiles for one or many applications, providing required security layer to uphold user data privacy.
 - Modified existing software to correct errors, upgrade interfaces and improve performance.
- **Cerner Healthcare Solution Pvt. Ltd. | Software Intern | Bangalore, India** **Jan, 2017 – June, 2017**

Developed a WPF application known as Instant Access Installer, under the mentorship of IAccess team. It could install all components of “Cerner Instant Access” and also setup required third party components that support the IAccess workflow. Both GUI based and silent install capabilities were provided to user.

EDUCATION

- **University at Buffalo, NY, USA** **Aug, 2018 – Feb, 2020**

Masters of Science – Computer Science & Engineering
- **Manipal Institute of Technology, Karnataka, India** **Aug, 2013 – July, 2017**

Bachelor of Technology – Computer & Communication Engineering

ACADEMIC PROJECTS

- **Web mining and Social Media mining for text extraction & summarization** : Developed an end-to-end system that crawls through multiple news websites and Twitter to collect textual data for election-based riots, which is then processed to extract key information like event location, date, entities involved, and create a summary of each news article to be displayed on the UI along with analysis like time-line and location distributions. *[Python, Flask Framework, BeautifulSoup, NLTK, Spacy, Gensim, Glove Word Embedding, HTML5, CSS3, Twitter API, JavaScript, Apache Solr]*
- **Complete Search and Analytics Solution based on dissecting twitter data** : Developed a web application deployed on Amazon EC2 Server that performed Sentiment Analysis, Distribution Graphs based on location and language for each search query. Tweet Data was retrieved using Twitter API and Indexed using Apache Solr. *[Python, Flask Framework, HTML5, CSS3, Twitter API, JavaScript, Amazon AWS, Apache Solr]*
- **Designing and Deploying a Service-Based Distributed Systems** : Involved developing a client-server application involving use of Google Maps API and OpenWeather API to show weather along a user-defined route. Stored distinct results using MongoDB for faster performance. *[Python, HTML5, CSS3, JavaScript, MongoDB]*
- **Emulating Pub/Sub Distributed System using Docker Containers** : Involved developing a Distributed Publish-Subscribe interface as a client-server application that were executed and interacted amongst multiple docker containers. *[Python, Flask Framework, Docker ToolBox, HTML5, CSS3, AJAX, JavaScript]*
- **Data Collection & Analysis using R and Twitter Data** : Collected twitter data using relevant terms and processed it to plot a map of USA with a gradient representing the quantity of tweets with respect to flu from each state, this was later compared to the CDC data for the last year to see how reliable social media is in terms of finding a trend for flu in the USA. *[R, RStudio, Jupyter Notebook, Twitter API]*

TECHNICAL SKILLS

- *Application development frameworks*: Flask, WPF, Django.
- *Front-end technologies*: HTML5, CSS3, JavaScript, AJAX, XAML.
- *Programming languages*: Python, JAVA, C#, C++, R.
- *Database*: MySQL, Oracle SQL Server, MongoDB.
- *IDE*: Eclipse, Microsoft Visual Studio, IntelliJ, PyCharm, RStudio, Remix.
- Experience with Amazon Web Services (AWS) such as EC2, S3.
- Experience working in Agile team and knowledge of SDLC.
- Knowledge of OOP concepts, Design patterns, Data Structures, White Box Testing.
- Experience with Cisco Packet Tracer, VMWare VirtualBox, Citrix Receiver, Microsoft Office, Tableau, Docker Toolbox, Apache Solr, Apache Hadoop, Git, TortoiseSVN.