

KUNAL VAGHELA

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Education:

State University of New York

Binghamton, New York

- **Master of Science, Computer Science** August 2016 – December 2018
- **Relevant Coursework:** Advanced Object-Oriented Programming, Design and Analysis of Algorithms, Operating Systems, Programming languages.

Sardar Vallabhbhai National Institute of Technology

Gujarat, India

- **Bachelor of Technology in Computer Science and Engineering** August 2010 – May 2014

Technical Skills:

- **Programming Languages:**
 - C++ 17/14/11, Python 2.7/3.6, C, Java, C#
 - HTML5, CSS3, JavaScript, React.js, Angular4, Flask
- **Tools and Technologies:**
 - Google Cloud Platform (Datastore and Pub/Sub), RESTful web services, JSON, XML, Android Studio
 - MySQL, SQL Server, PL-SQL, NoSQL (MongoDB and Couchbase).
 - Linux, Git Version control and JIRA

Professional:

rMark Bio Inc

Chicago, Illinois

Python Intern

June 2017 – August 2017

- Building RESTful API for CoRE(Collaboration Recommendation Engine) KOL used for deep learning in medical and pharmaceutical industry.
- Database manipulation and migration from Couchbase server to google cloud datastore.
- Web scraping and data extraction from different websites for data analytics.
- Technology Stack: Google cloud platform, CouchDB, Python libraries (BeautifulSoup, JSON).

Stayinfront Inc

Gujarat, India

Microsoft CRM Developer

December 2014 - May 2016

- Successfully released mobile-based CRM for Mondelez International globally for 13 countries.
- Designing, developing and configuring functional requirements for Stayinfront CRM as per the clients.

Projects:

- **Containers in C/C++:**
 - Implemented a template container double-ended queue like a STL vector primarily using macros in C. Being a template it can be operated with generic types.
 - Implemented a container class template with functionalities like a STL Map using skip lists to keep the look-up, insertion and deletion time complexities restricted to logarithmic upper bound.
 - **Smart Pointers:**
 - Implemented a thread-safe, exception-safe, reference-counting smart pointer with functionalities like a STL shared pointer including dynamic and static cast operations.
 - **Metaprogramming:**
 - Implemented a multi-dimensional array with no memory allocation from heap using variadic template and template metaprogramming.
 - **Fore Twitter:**
 - Sentiment analysis of tweets to classify them into positive, negative or neutral tweets. Developed using machine learning models, NLTK library implemented on Python and Excel.
 - **Food-caster:**
 - Web application built on Flask to link three different aspects together: measuring nutritional value of food, suggesting different fitness regimes and displaying the weather forecast to organize it outdoors using google maps and yahoo weather API.
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