KUNAL VAGHELA

14 Petunia Dr, Apt 2B, North Brunswick, New Jersey 08902 | kvaghel1@binghamton.edu | (848)-252-1486

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**:
  - Proficient – C++ 17/14/11 and Python 2.7/3.6
  - Familiar – HTML5, CSS3, Javascript, C#
- **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**

Business Model Engineer — **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.