

# SHUBHAM GUPTA

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## SUMMARY

MS Computer Science graduate with 3 years of experience as a software engineer seeking full time positions.

## EDUCATION

Arizona State University, *Ira A. Fulton Schools of Engineering* - Tempe, AZ  
**M.S. Computer Science**, May 2020, GPA: 3.97

VIT University, *Vellore Institute of Technology* - Vellore, TN  
**B. Tech. Information Technology**, May 2015, GPA: 8.73(on scale of 10)

## PROFESSIONAL EXPERIENCE

Systems Software Engineer, *Vertica*, Cambridge, MA  
July 2020 - present

- Part of Query Optimizer team, working on parse tree enhancements and intelligent query optimizations.

SDE Intern, *NetApp Inc*, Sunnyvale, CA  
June 2019 - August 2019

- Worked on a project to implement a lockless publisher-subscriber framework. It supports multi-producer enqueue and multi-consumer dequeue of messages.
- For thread safety, used SPDK library to implement lockless queue wrapper using ring container.
- Achieved 50% performance improvement as compared to pubsub framework consisting of locks and mutexes.

SDET, *S&P Global Market Intelligence*, Gurgaon, India  
July 2015 - June 2018

- Was responsible to perform end to end data testing of all Ratings products.
- Ensured data quality by running various data checks on multiple DB servers (SQL Server/Oracle), consisting of formulating and executing complex SQL queries, performing stored proc review, etc.
- Automated 60% of data quality checks by using SSIS packages and SQL agent job.

## TECHNICAL SKILLS

- **Programming Languages** – C, C++, Python, Java, SQL, VBA.
- **Software Tools/Frameworks** - Visual Studio, GIT, JIRA, Selenium, SQL Server, Toad.
- **Operating Systems** - Windows, Linux (Ubuntu).
- **Others** – Data Structures and Algorithms, Agile/Scrum Methodologies, SDLC, Software testing(frontend/backend).

## RELEVANT PROJECTS

*Implementing Similarity Finding problem for Objects using Machine Learning techniques:* Aug 2018 – Nov 2018

- Given object data (textual and visual), aim of project is to apply dimensionality reduction on it(using various methods like SVD, PCA, etc).
- Then, using various supervised and unsupervised ML algorithms (classification, clustering, ranking), implemented the solution to find similarity queries output as requested by the user. Implemented in Python using sklearn and numpy libraries.

*Implementing a small compiler for a given language:* Oct 2018 – Nov 2018

- Aim of the project is to write compiler for a given language in the form of CFG. The program generates intermediate representation(data structure), which is interpreted to execute the program. Implemented using C++.

*Automation Regression Dashboard:* Jan 2015 - Apr 2015

- It imports the test cases from HP ALM, runs them in the SQL server and updates their execution status. Also, the report of the test run is mailed to the QA team. Was developed using VBA, Excel macros, HP OTA API, ADO DB objects.

## AWARDS AND ACCOMPLISHMENTS

- Awarded bronze Ace awards in categories of Drive Performance & Elevate People in S&P Global.
- Was amongst the top 10 coders in the Code Fu Hustle event organized by Cerner India in VIT.