

HUSEN BHAGAT

Software Engineer
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TECHNICAL SKILLS

Programming: C++, Python, JavaScript, C#, Java, UI5, XML, Haskell, AngularJS, ReactJS, NodeJS
Framework & Tools: SQL, PowerBI, Azure (DataLake, Synapse Analytics, Customer Insights), Apache Spark
Familiar with: Git, Gerrit, Jenkins, Heroku, Jira, RESTful OData v2, DAX, M script, L^AT_EX

WORK EXPERIENCE

Software Engineer - BI **Veritas Technologies LLC, CA** *Jan 2021 - Present*

- Built dashboards using Self-Service tools like PowerBI and performed data analysis to support multiple business units.
- Worked closely to understand business requirements, develop ETL processes, validate results, and deliver to production.
- Developed scalable data pipelines using Apache Spark to induct data from multiple source systems into Azure DataLake.
- Designed and implemented an efficient fuzzy matching approach for customer grouping, for efficient analytics and reporting.
- Analyzed marketing, customer and bookings data to conceptualize a predictive model for lead and renewals prediction.

BI Developer Intern **Veritas Technologies LLC, CA** *Jun 2020 - Aug 2020*

- Analyzed support data across all business units and devised a road map to improve resolution time by predictive modelling.
- Performed EDA on a highly imbalanced data to predict potential escalations using sampling, Tomek Links and SMOTE.
- Contrived a profile-based design science approach to derive meaningful features using Recursive Feature Elimination.
- Decreased incident resolution time and customer escalations by 42% resulting in increased developer efficiency at Veritas.

Software Engineer Co-op **SmartKable, NY** *Aug 2019 - Nov 2019*

- Researched and created an ad hoc multi-hop mesh network of sensor nodes with point-to-point and broadcast messaging.
- Developed an asynchronous, multi-threaded Java library to provide bidirectional communication among sensors.
- Utilized Amazon CodeCommit to handle code-versioning and manage collaboration among team members.

Software Engineer **SAP Labs, India** *Aug 2016 - Dec 2018*

- Designed a MVC based UI framework to automatically generate code with business logic by capturing attributes via XML.
- Employed metadata-driven development with semantic annotations to reduce front-end code by over 80%.
- Improved performance of UI5 applications by 60 % by means of a distributed library loading and cache buster mechanism.
- Spearheaded Test Driven Development process using QUnit for unit tests and OPA5 for integration testing.
- Orchestrated and automated build cycles using Jenkins to ensure continuous delivery using Pipelines and Blue Ocean.

PROJECT EXPERIENCE

NachOS

- Implemented Completely Fair Scheduler to schedule the operating system resources equally among all the processes.
- Added virtual memory management to NachOS, using swap file mechanism and implemented LRU caching policy.
- Extended the FileSystem to support dynamic file sizes, concurrency among multiple processes along with implementation of a linux-like i-node table for each process.
- Developed a shell application and implemented basic linux commands and file system utilities in NachOS.

Code Publisher

- Programmed a remote code publisher in C++ and Windows Presentation Foundation (WPF) featuring an asynchronous message-passing communication channel to convert source code files into HTML web pages.
- Combined managed C# code with C++ using a C++/CLI translator.
- Devised the system with SOLID design principles to obtain reusable, maintainable, scalable and easy testable code.
- Added unit tests using Microsoft's Unit testing framework in C++.

EDUCATION

Master of Science, Computer Science *Jan 2019 - Dec 2020*
Syracuse University, Syracuse, NY *GPA: 3.9/4.0*

Bachelor of Engineering, Computer Engineering *June 2012 - May 2016*
University of Pune Pune, India *First Class with Distinction*