

Siddharth Bhola

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Career Focus

To contribute as a research and development expert at an organization where I can effectively utilize my software engineering skills and create innovative solutions.

Education

Qualification	Board/University	Graduation Date
Master of Science in Information Technology	Northwestern University, McCormick School of Engineering, Evanston, IL, USA	December 2019
Bachelor of Engineering in Computer Engineering	Army Institute of Technology, University of Pune, India	May 2014

Professional Experience

Senior Software Developer, [Tavisca Solutions Pvt. Ltd.](#) (July 2014 - July 2018)

Tokenization Proxy for PCI-DSS

- Developed a data vault and tokenization solution using AWS KMS, AWS Lambda, DynamoDB, and RESTful APIs in .Net Core to make our travel platform PCI compliant.
- Developed a proxy service in .Net Core to abstract card tokenization behind a proxy.

Revenue Management Engine

- Developed a high-performant, distributed computing system that provides various pricing techniques and big data analytics for improving e-commerce product revenues, using Finch-Finagle, Scala, Akka, Amazon-Redshift, Amazon-Firehose, and Elasticsearch-Logstash-Kibana.
- Developed a big data analytics solution using Amazon-Redshift and Microsoft PowerBI.

[OneConnect](#) (Hotel Booking Engine)

- Developed web APIs for a fully managed, cloud-based API platform that eases the complexities of booking travel inventory from multiple suppliers by using ASP .NET Web API 2, C#, Aerospike, Elasticsearch, Redis, and Consul.
- Migrated state store implementation from Aerospike to Cassandra which resulted in 40% improved latency of search API.
- Looked into the performance profiling of the system using ANTS Profiler and reported the bottlenecks in the code. The code changes reduced the memory and CPU utilization by 20% and 25% respectively and also reduced the infrastructure cost significantly.

[Clarifi](#) (Real-time hotel content aggregation and syndication system)

- Worked as a full stack developer using technologies such as C#, ASP .NET MVC, MongoDB, Elasticsearch, RabbitMQ, and web technologies such as HTML, CSS, and JavaScript.
- Automated the release process by implementing release pipelines using Chef and Spinnaker.
- Independently researched and developed a Geographic Information System of the world neighborhood boundaries by using Elasticsearch and Kibana.

Intern, [Calsoft Incorporation](#) (June 2013 - May 2014)

Researched and developed “Microsoft volume shadow copy service for SQLite database,” which is a point-in-time backup mechanism for SQLite database on Windows servers.

Intern, [InfoStretch Corporation](#) (August 2012 - Sept 2012)

Developed a location-based bus guide for Pune by using Android SDK, Java, SQLite database.

Intern, [Reliance Industries Limited](#) (Dec 2011 - Jan 2012)

Studied the network and telecommunication infrastructure of Reliance Industry Limited Jamnagar, found out the loopholes, and suggested improvements.

Awards and Achievements

- Research paper published in the “International Journal of Advanced Computational Engineering and Networking,” with Paper ID – CSMEGOA-16024-021 and ISBN - 978-93-82702-58-0 (Feb 2014)
- Editor of the Army Institute of Technology’s technical e-magazine (August 2013)
- Technical Secretary of the Army Institute of Technology (May 2013)