

## Sunil Muralidhara

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### Education

**University of Southern California**, Los Angeles, CA

May 2018 (Expected)

Master of Science, Computer Science (Artificial Intelligence)

**Sir M Visvesvaraya Institute of Technology**, Bangalore, India

June 2012

Bachelor of Engineering, Computer Science

### Technical Skills

Programming Languages: Python, SQL Server, JavaScript, JQuery, Java, C, C++, JSP, Perl, C#, R

Technologies: JSON, HTML5, SQLAlchemy, Eclipse, Redis, SQL Management Studio, Highchart, SlickGrid, Struts, Springs, IBatis, XML, Cognos, ASP.NET, ADO.NET, Oracle, WPF, Jenkins, Hudson

Operating Systems: UNIX, Linux, Windows

Microsoft Certification in .Net Framework

### Professional Experience

**D E Shaw India**, Hyderabad, India

July 2012 - July 2016

**Senior Member Technical**, IT/Front Office Discretionary

- Handled solely Non-Performing Loans (NPL) & CMBS sector as a Full-stack software developer for Asset Backed Security (ABS) team and mentored a team of 10 and grew as a valuable asset.
- Developed dashboards for Portfolio management, P&L, Risk Analysis, Repo, Pricing Models, capital allocation of funds, pre trade analysis for discretionary trade decisions, operational support using Python, SQL Server, JavaScript, JQuery, JSON, HTML5, SQLAlchemy, Highcharts, Slickgrid, Redis. Extracted qualitative information from websites to generate various models in Python & R.
- Recognized for the outstanding performer, resulted in representing the ABS team in New York to gather requirements & resolve traders' day to day operational problems.

**Member Technical**, IT/Front Office Discretionary

- Tracked distorted services' feeds managed cash flow and evaluated the performance of the servicers' in NPL Business.
- Predicted the market changes by integrating external vendor data with in-house data warehouse for modeling and analyzed the financial instruments related to CMBS.

### Academic Projects

**Sir M Visvesvaraya Institute of Technology**, Bangalore, India

- **Estimate available bandwidth in Ad-hoc networks:** Reduced the collision and improved the throughput to estimate the Quality of Service (QoS) in Ad-hoc network using Java.
- **Rain Water Harvesting** (Mini Project): Demonstrated the rain water harvesting, a 2D computer graphic using OpenGL.
- A web application "Akshaya Pet Clinic Website" and daily sales tracking "Pet Clinic DB" developed to assist my Uncle's Pet Clinic using C#, asp.net & SQL Server.
- Research Publication - "Finite vocabulary text dependent speaker identification and speech recognition"

### Additional Information

- Conducted Placement talks in my bachelor's degree. Actively took part and volunteered in various cultural and technical college Fests.
- Interests: Athletics (district level 3<sup>rd</sup>, 400meters), Swimming, TT, Chess, Cricket, Badminton, Billiards.