Sunil Muralidhara

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EDUCATION

University of Southern California, Los Angeles, CA   December 2017
Master of Science, Computer Science

Sir M Visvesvaraya Institute of Technology, Bangalore, India   June 2012
Bachelor of Engineering, Computer Science

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, Jquery, JSP, Java, C, C++
Technologies: JSON, HTML5, Sqlalchemy, Eclipse, Redis, SQL Server, Highchart, SlickGrid, Struts, Springs, IBatis, XML, Cognos
Operating Systems: UNIX, Linux, Windows
Microsoft Certification in .Net Framework

ACADEMIC PROJECT

University of Southern California, Los Angeles, CA   September 2016 - Present
- Research Assistantship:
  a) Predicted the companies' competitors, before the company is started.
  b) Textual analysis & modelling of eminent Professors' resume for the USC Marshall School of business.
- Specializations in Artificial Intelligence, Robotics, Natural Language Processing, Machine Learning.
- Won the "Best Artificial Intelligence (AI) Hack" – hackathon organized by USC.
- Built an intelligent game playing agent for the competition organized by the AI professor, that played against 600+ AI students algorithm and ranked top 5.

Sir M Visvesvaraya Institute of Technology, Bangalore, India   June 2008 – June 2012
- 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.
- Pet Clinic website and daily sales application to assist my Uncle's clinic using C#, asp.net & SQL.

PROFESSIONAL EXPERIENCE

D E Shaw India, Hyderabad, India (4 years work experience)   July 2012 - July 2016
Senior Member Technical, IT/Front Office Discretionary
- Full-stack software developer for Asset-Backed Security (ABS) strategy. Designed front-end & back-end and written python web-services from the scratch for ABS Technical team.
- Recognized as the outstanding performer resulted in representing the ABS India team in New York office.
- Developed UI dashboards for Portfolio management, pre-trade analysis for trade decisions, extracted qualitative information from websites and generated models using Python, SQL Server, JavaScript, Jquery, JSON, HTML5, Sqlalchemy, Highcharts, Slickgrid, Redis, R, mechanize and Beautiful Soup.

Member Technical, IT/Front Office Discretionary
- Tracked distorted servicers' feed, managed and predicted future cash flows of the servicers' in NPL Loans.
- Integrated external vendor data with in-house data warehouse using probability match built in-house to predict the market changes in CMBS instruments.

ACHIEVEMENTS AND HONOURS
- Superstar promotion at D.E.Shaw & Co. and mentored 5 of my colleagues. Conducted Placement talks in undergrad and actively took part and volunteered in various cultural and technical competitions.