SUGATA ACHARJYA

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EDUCATION

UNIVERSITY OF TORONTO   Toronto, ON
Bachelor of Science: Computer Science, Statistics & Mathematics   May 2015
- *Academics*: Rigorous course work in Statistical Modelling & Machine Learning, Database Design & Implementation, Object-Oriented & Functional Programming, Data Structures & Algorithm Analysis, and Discrete Mathematics.
- *Extracurriculars*: Hacker Academy, University of Toronto Orientation, Hart House Debating Club

TURNER FENTON SECONDARY SCHOOL
International Baccalaureate Diploma
- *Academics*: University preparatory courses in Mathematics, Economics, Biology, Chemistry, English, and French.
- *Honours*: Ontario Scholar (Graduating Average of 90%); Top 10% in the University of Toronto Biology Competition.

BUSINESS EXPERIENCE

SAP   Vancouver, BC
Developer – Business Intelligence   Sept 2013 – Apr 2014
- Developed an analytics platform for the collection, analysis and reporting of data generated by the Product and Engineering divisions; used platform to deliver impactful insights and investigate trends in software release cycles.
- Processed 53 GB of daily data via an in-memory database system (SAP HANA); performed statistical analysis using R; employed Node.js for web application deployment and D3.js for data visualization.
- Performed system administration, maintenance and upgrades on a heavily-trafficked internal deployment of SAP BusinessObjects Enterprise utilizing MS SQL Server and Apache Tomcat.

BANK OF AMERICA MERRILL LYNCH   Toronto, ON
Developer – Risk & Analytics   May 2013 – Aug 2013
- Built a parallel log-file processing system to handle data generated by the primary pricing engine for equity-linked (derivative) products; used the platform to drive decisions for functional deprecation and migration.
- Utilized a 2-node Hadoop + MySQL cluster for daily storage and processing of 1 TB of uncompressed data, Thrift for serialization and RPC of data to a Python and JavaScript (Ext JS) front-end for analysis, interpretation and reporting.

JARDEN CORPORATION   Brampton, ON
Analyst – Demand Forecasting   May 2012 – Aug 2012
- Designed and implemented a statistical forecasting system for supply chain analysis leveraging VBA programming and Logility ERP; utilized Holt-Winters exponential smoothing, Excel Chart and Pivot table manipulation.
- Increased forecast accuracy rates by 23%-79%; resulted in significant changes in revenue allocation and financial budgeting across business units totalling $150+ Million in annual revenue.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, C, Java
- Distributed Computing: Hadoop, Spark, Cassandra
- Database Systems: MongoDB, MySQL, MS SQL Server
- Web Development: Angular.js, Node.js, D3.js
- Numerical Computing: R, VBA, MATLAB
- Development Tools: Git, JIRA, Vim, tmux

QUANTITATIVE PROJECTS

LADLEMILL   http://bit.ly/YWHUmf
- TV show tracker – find virtually all existing television programs, get episode summaries and sign up for updates
- Built using JavaScript (Angular.js) for front-end, Python for web crawling and processing and MongoDB for storage

TOPOTOME   http://bit.ly/1lx4o0B
- Interactive look into Canadian landscape and demographics - plan a trip, decide where to move or explore communities
- Built using a variety of front-end and map-based JavaScript libraries (jquery, D3.js, Leaflet.js, Mapbox.js)

ADDITIONAL

- Personal Website: http://sugataa.github.io
- Computational Portfolio: https://github.com/sugataa
- Athletics: Power-lifting, Squash, Track & Field, Rowing/Dragon Boating; Recreational (Ice Hockey, Flag Football & Soccer)
- Interests: Open Source Software, Combinatorics & CGT, Mathematical Poker, Chicago Bears Football, Quantified Self