SUGATA ACHARJYA

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EDUCATION

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

TURNER FENTON SECONDARY SCHOOL　　　　　　　　　　　　　　　Brampton, ON
International Baccalaureate Diploma　　　　　　　　　　　　　　　　　　June 2009
- *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
- Developing an analytics platform for the collection, analysis and reporting of data generated by the Product and Engineering divisions; using platform to deliver impactful insights and investigate trends in software release cycles.
- Employing the use of SAP HANA for the processing and warehousing of 50 GB of daily data; R for statistical computing and analysis; Shiny (Node.js) for web deployment and rCharts (D3.js) for visualization.
- Performing system administration on a heavily trafficked 6-node implementation of SAP BusinessObjects Enterprise.

BANK OF AMERICA MERRILL LYNCH　　　　　　　　　　　　　　　Toronto, ON
Analyst – 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/Hive 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, C, Java
- Distributed Computing: Hadoop, Hive, Spark
- Database Systems: MySQL, SAP HANA, MongoDB
- Web Development: JavaScript (D3, Node), Django
- Numerical Computing: R, VBA, MATLAB
- Development Tools: Git, JIRA, Vim, tmux

QUANTITATIVE PROJECTS

CALC-COMPILER　　　　　　　　　　　　　　　　　　　　　　　　Python
- Exploration into programming language and compiler construction via an LLVM "backend" for optimized code generation.
- Implemented a compiler "front-end" – lexer, parser, AST – for basic arithmetic syntax using the python bindings for LLVM.

POPULATION VISUALIZATION　　　　　　　　　　　　　　　　　　　　R
- Exercise in data visualization – geographic plotting of attributes across major Canadian cities – population > 1000.
- Web application built entirely in R using the Shiny and rCharts libraries (http://spark.rstudio.com/sugataa/population/)

ADDITIONAL

- Personal Website: http://sugataa.github.io
- Computational Portfolio: https://github.com/sugataa
- Athletics: Track & Field, Rowing/Dragon Boating (New College - UofT); Ice Hockey, Flag Football, Soccer (UofT Intramurals)
- Interests: Open Source Software, Poker, Chicago Bears Football, Quantified Self