Albert Haque

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EDUCATION

Stanford University   **Stanford, CA**
Master of Science (M.S.), Computer Science   Starting in September 2014
- Specialization in Artificial Intelligence

University of Texas at Austin   **Austin, TX**
Bachelor of Science (B.S.), Computer Science   Expected May 2014
Bachelor of Business Administration (B.B.A.), Finance and Business Honors
- **Honors Thesis**: *A MapReduce Approach to NoSQL RDF Databases*

WORK EXPERIENCE

Microsoft   **Bellevue, WA**
Program Manager Intern / Bing Ads, Ad Relevance and Revenue Optimization   May 2014 – August 2014
Program Manager Intern / Bing Ads, Paid Search Ads Applications   May 2013 – August 2013
- Wrote parallelized T-SQL code to modify advertiser information in database clones and live production servers
- Designed new table schema and deployed SQL Server job to multiple, horizontal database partitions
- Developed and tested new code in local, test, and release branches using Visual Studio/Team Foundation Server
- Iterated over code shelves and check-ins by incorporating feedback from code reviews with dev and test leads

Cardinal Health   **Chicago, IL**
Summer Intern   May 2012 – August 2012
- Consolidated data for the income statement and balance sheet for domestic and international medical segments
- Created Visual Basic scripts to push, pull, and link updated accounting information from internal databases

OmniCure Home Health   **Dallas, TX**
Software Engineering Intern   May 2011 – August 2011
- Designed front-end web applications using C#/.NET and improved GUI using feedback from nurses and patients
- Created 60+ interactive online Medicare and HIPAA compliant PDF forms to automatically export data into excel spreadsheets upon user submission resulting in increased data accuracy on medical records

RESEARCH, PROJECTS, AND PUBLICATIONS

A Cloud Triple-Store
Department of Computer Science, University of Texas at Austin   September 2012 – Present
Conference Publication: NoSQL Databases for RDF: An Empirical Evaluation (ISWC '13)
- Constructed a prototype system to store linked RDF data in a cloud environment using various NoSQL architectures including Apache Hadoop, Amazon EC2, Google BigTable (HBase), SPARQL, and Hive
- Built a parser and query engine: tokenizes input, builds an abstract expression tree, and outputs a target language
- Drafted a software engineering plan: listed hardware requirements, key test cases, and benchmarking procedures
- Wrote a parallelized pre-processor to convert large (giga- and terabyte) data files into a target format
- Ran benchmark tests on Amazon EC2 / Elastic MapReduce; included database and cluster parameter tuning

Optical Character Recognition, *Honors Artificial Intelligence Course (C++)*   April 2013
- Designed a program to extract features from a set of digitized, handwritten, numeric digits
- Visible features included: connected components, vertical and horizontal line lengths, locations, and curvature
- Applied naïve Bayes classifier to achieve 93% accuracy on new characters after training on 5,000 digits

SKILLS

Programming Languages: Java, C#, Python, C, C++, Visual Basic
Web & Databases: HTML (Bootstrap), CSS, MySQL, Hadoop, HBase, Hive, Amazon EC2, EMR, and S3
Interests: Distributed & Parallel Computing, Optimization, Machine Learning, and Data Mining