

Albert Haque

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EDUCATION

Stanford University

Master of Science (M.S.), Computer Science

- Specialization in Artificial Intelligence

Stanford, CA

Starting in September 2014

University of Texas at Austin

Bachelor of Science (B.S.), Computer Science

Bachelor of Business Administration (B.B.A.), Finance and Business Honors

- **Honors Thesis:** *A MapReduce Approach to NoSQL RDF Databases*

Austin, TX

Expected May 2014

WORK EXPERIENCE

Microsoft

Program Manager Intern / Bing Ads, Ad Relevance and Revenue Optimization

Program Manager Intern / Bing Ads, Paid Search Ads Applications

- 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

Bellevue, WA

June 2014 – August 2014

May 2013 – August 2013

Cardinal Health

Summer Intern

- 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

Chicago, IL

May 2012 – August 2012

OmniCure Home Health

Software Engineering Intern

- 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

Dallas, TX

May 2011 – August 2011

RESEARCH, PROJECTS, AND PUBLICATIONS

A Cloud Triple-Store

Department of Computer Science, University of Texas at Austin

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

September 2012 – Present

Optical Character Recognition, Honors Artificial Intelligence Course (Python)

- 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

April 2013

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