Arni Mar Thrastarson

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Employment

Microsoft, Data Engineer 2, 2018-.
Part of the Data Science team supporting Dynamics 365 Guides, a new Mixed Reality application for the HoloLens. I develop machine learning pipelines, analytics, and intelligent features.

I work with large distributed data systems, the Azure cloud platform, and the Python data science stack. I lead the work on GDPR and enterprise data compliance for our products.

Coltrane Ewing. Data Engineer, 2014-2018.
Coltrane Ewing is a private investment fund that is a world leader in the field of sports betting.

I wrote data pipelines and designed the databases for player tracking data in multiple sports, matched with existing databases, and extracted insights to improve data analytics and support modelling research across the organization.

I developed a machine learning model for a key feature in our prediction models that outperforms any public result for a known problem in sports analytics. Other modelling projects involved clustering. Other modelling projects include clustering, regression analysis, supervised classification and ranking.

I was the lead developer of a system for putting through hundreds of betting orders simultaneously through automated bots that maximizes throughput and minimizes adverse price movements. This is a core system in the organization's bottom line.

Main tools: MySQL, Python, Django, the Python data science stack, d3.js.

University of British Columbia. Graduate Research Assistant, 2013-2014.
I did research on change detection in structured relational data, to propagate valuable updates from applications to original sources.

Landsvirkjun (Iceland National Power Company). Software Engineer, 2010-2012.
R&D department. I wrote software that enabled management to monetize losses due to spills in Iceland's main energy generation system.

Education

M.Sc. in Computer Science. University of British Columbia, 2014.
Thesis topic: Update propagation in distributed data systems. Supervisor: Dr. Rachel Pottinger.

B.Sc. in Computer Science, Software Engineering. Double major. University of Iceland, 2012.
1st class honours.

Stanford Summer International Honors Program. Stanford University, 2011.
I was chosen to be a part of a small group of excellent international students to attend this program on a full scholarship. I completed 3 fully accredited courses with a GPA of over 3.9/4.0.

Studentsprof. Commercial College of Iceland. 2008.
Comparable to two years of university-level foundation courses in an American junior college.

Technical Experience

Programming languages:

Python (incl. numpy, pandas, scikit-learn, Django), SQL, JavaScript. (Most current proficiency)

Java, C#, PHP, R, d3.js. (Intermediate proficiency)

Other tools:

Unix, Azure cloud services, Amazon Web Services, MySQL, Selenium, Jupyter Notebooks.

Teaching

University of British Columbia. Graduate Teaching Assistant, 2012-2013.
Led tutorials, gave office hours, graded projects in five offerings of the course Introduction to Relational Databases. Tools: SQL, Eclipse.

University of Iceland. Teaching Assistant, 2010-2012.
In the courses Introduction to Programming, Data Structures and Algorithms, Discrete Mathematics, and Analysis of Algorithms. Tools: Java.

Extracurricular Activities

UBC Graduate Student Society Council. Councillor, 2013-2014.

UBC Alma Mater Society Council. Councillor, 2013-2014.

UBC Department of Computer Science. Member of departmental committees: Focus on Women in Computer Science, Faculty Recruiting Committee, 2013-2014.

Commercial College of Iceland. Student body president, 2007-2008.
I coordinated all social activities in the largest student organization in Iceland. I led negotiations with some of the largest companies in the country, and supervised the operation of 120 student volunteers.

Student Alliance of Icelandic Colleges. Chairman, 2007-2008.
I played an active role in protecting the interests of college students and organized lobbying on both the provincial and federal level.

Commercial College of Iceland. Captain of the trivia team, 2004-2008.
I competed in the nationally broadcast *Gettu betur* trivia quiz competition between Icelandic colleges. My team won a silver medal, as well as reaching semifinals twice and quarterfinals once. In 2006 I was the captain of the school's intercollegiate debate team.

Awards

Stanford University. Full scholarship to attend the selective Stanford Summer International Honors program, 2011.

Islandsbanki (Bank of Iceland). Scholarship for outstanding students in higher institutions, 2010.

Commercial College of Iceland, 100 year achievement fund. Award for an outstanding contribution to student life, 2008.