

# Arni Mar Thrastarson

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## Employment

### **Two Circles. Lead Engineer, 2020-**

I lead a team developing a modern data analytics platform for a major client servicing the US college sports industry. The development stack is Python, Spark, Delta Lake, Tableau and deployed with several Azure services and Databricks.

Two Circles is a sports marketing agency that uses data to grow direct relationships with sports and fans.

### **Microsoft. Senior Data Engineer, 2020.**

#### **Microsoft. Data Engineer II, 2018-2020.**

On the Data Science team supporting Dynamics 365 Guides, a Mixed Reality business application for the HoloLens. I developed production pipelines for machine learning and ETL, and AI product features.

I worked with large distributed data systems similar to Hadoop. I develop in Python and use Spark and Kubernetes. I build event-driven serverless AI services in Azure. I lead the work on privacy and enterprise data compliance for our organization.

I led significant projects and served in agile leadership roles. I manage the work of a junior data engineer. I presented at MLADS, Microsoft's internal data science conference.

Managed by Jason Vantomme and Edo De Martin.

### **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 support quantitative research across the organization.

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

I was the lead developer of a system for placing 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.

### **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, pyspark, scikit-learn, keras), SQL, JavaScript. (Most current proficiency)

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

Other tools:

Kubernetes, Azure, AWS, Apache Kafka, MySQL, DataBricks.

## 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

**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.