

Coby E. Benveniste

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Education

Post High School Courses: University of Illinois at Urbana-Champaign College of Engineering, Urbana, IL, *August 2014 – May 2015*, Hebrew University Rothberg International School, Jerusalem, Israel, *October 2013 – January 2014*

The Ben Franklin Academy, Atlanta, GA, *Graduated May 2013*

Work Experience

Data Scientist at Signals Analytics: March 2017-Present – *Working on the Research and Analysis team at a product intelligence company. Currently, developing new and innovative models to extract insights from scientific, social, and market data in various industries.*

Tableau Specialist and Analyst at Signals Analytics: January 2016-March 2017 – *Worked on the Research and Analysis team and Professional Services team at a product intelligence company. Developed various template frameworks in the Tableau data visualization environment, as well as developing a classification algorithm.*

Independent Contractor at Jamestown, L.P.: September 2015-December 2015 – *Worked as an independent consultant for a realty investments company. Developed a system for automating tax-reporting processes for the company to the federal government.*

Software Developer at Leapfrog Services, Inc.: June 2014-September 2015 – *Developed various reporting tools, automation scripts, proof-of-concept projects, and custom applications for internal company use.*

Independent Contractor for IT Pros Philadelphia: November 2014-June 2015 – *Developed several programs including data crawlers and software integration for company use.*

Programming and Development Projects

2017, Project: Recreating a Monolithic Application as a Distributed Cloud-Based Microservice Architecture: *Took the application that housed the Rulebase Classification Algorithm (see below) and broke it up into decoupled microservices to deploy as highly scalable cloud-based workers. The project was developed primarily in C# and ASP.NET Web API, using ElasticSearch as a search algorithm, and RabbitMQ as a task queue.*

2017, Project: Tableau Model Design and Implementation: *Designing and engineering models for extracting analytics and insights at Signals Analytics. This entails analyzing scientific, social, and market data in various industries, and developing models in Tableau to extract valuable insights from this data to deliver to clients.*

2016, Project: Rulebase Classification Algorithm: *Designing a classification algorithm for Signals Analytics. The project entails designing and developing a Natural Language Processing algorithm to take massive amounts of data points, each with its own text description, and then classify what each data point is talking about, based on a set of rules*

provided. The project is being developed primarily in C#, using ElasticSearch as a search algorithm and data store.

2016, Project: Tableau Model and Algorithm Designs: *Designing various models and algorithms for Signals Analytics. The project entails developing complex visualizations to display data in new and innovative ways, creating algorithms to solve specific problems for the company, as well as developing new features for the company's platform. The project is being developed primarily in Tableau, using Tableau's internal SQL-like language.*

2015, Project: Tax Automation Process: *Developed a series of automation scripts for use by Jamestown, L.P. The scripts automate the process of sending the tax data necessary for the United States Internal Revenue Service to create and retrieve tax returns from their e-File system. The project was developed using the Selenium Browser Automation Framework, along with various Ruby scripts, C# programs, and Windows Batch Files to create a completely automated process.*

2015, Project: SharePoint Licensing Reporting Site: *Designed and deployed a SharePoint site for Leapfrog Services, Inc. The site is used internally by the company to track software licenses in use by their clients. The project was developed using SharePoint 2010 and 2013 workflows, as well as various web-based technologies.*

2015, Project: Shodan Security Scripts: *Wrote various scripts for Leapfrog Services, Inc. The scripts were used to test clients against the Shodan.IO database and web crawler to look for open ports and vulnerabilities on their computers and servers.*

2015, Project: Chef Proof-of-Concept: *Designed a proof-of-concept for Leapfrog Services, Inc. The concept was to migrate the provisioning of their servers from a manual process to an automated process by using the Chef DevOps software. The project was primarily developed with Ruby, as well as the Chef Ruby-based DSL.*

2015, Project: Business Intelligence Software Proof-of-Concept: *Tested various business intelligence software suites for Leapfrog Service, Inc. The concept was to build a simple business intelligence-reporting tool for a data warehouse.*

2015, Project: Pricing Calculator: *Wrote a pricing calculator for Leapfrog Services, Inc. The calculator is used to onboard new clients, as well as determine prices for new projects that clients request. The project was primarily developed in the Microsoft .NET Runtime, using C#.*

2015, Project: Field Services Department Scheduling Tool: *Wrote a scheduling tool for Leapfrog Services, Inc. The tool integrates the company's ticketing system and Microsoft Exchange calendar to schedule appointments for the Field Services Department. The project was primarily developed in the Microsoft .NET Runtime, using C#.*

2015, Project: IT Pros Maps Site: *Designed and developed a website for IT Pros Philadelphia. The site had a backend database populated with data about various clients, and a frontend page that used the data in the database to plot where each client was on a map, and display information about the client. The project was primarily developed using HTML, CSS, JavaScript, Leaflet.JS, Twitter Bootstrap CSS, and MySQL.*

2014, Project: Data Scraping: *Wrote several computer programs for IT Pros Philadelphia designed to scrape various websites for information. The data was then manipulated into a format that was usable by the company, and placed into the company's database and CRM. The project was primarily developed in Ruby, using various REST APIs to collect the data.*

- 2012, Project: Investigation of Mutational Hot Spots in Human Mitochondrial DNA: *Wrote a computer program to analyze multiple DNA sequences and compare them for variable sequences. Human mitochondrial DNA sequences were used as an example. Project was programmed using the Igor Pro Scientific Analysis program with custom functions for this analysis written in C by me.*
- 2011, Project: Computer Program to Censor Cyber Bullying: *Wrote a program to search through emails and determine whether the email contains any form of cyberbullying and block its content. Project was programmed using PERL, PERL CGI, HTML, JavaScript, and CSS.*
- 2009, Project: Computer Program to Test for Colorblindness: *Wrote a computer program to diagnose whether the user is colorblind, and what type of colorblindness the user may have. Project was programmed using HTML, JavaScript, CSS, and SVG.*
- 2008, Project: Computer Program to Find Exact Eye Prescription: *Wrote a computer program that could administer an eye exam and determine the exact eye prescription of the user. Project was programmed using HTML, JavaScript, and CSS.*
- 2007, Project: Computer Program for Text Encryption: *Wrote a computer program for text file encryption and decryption. Designed my own public-private key encryption protocol and algorithm from scratch. The algorithm took in a file, converted it to binary, and mixed up the binary according to a public-private key combination. Project was programmed using PERL.*

Skills

Languages (experienced): PERL, PERL CGI, HTML, JavaScript, Java, C, C++, CSS, C#, Visual Basic 6, VB.NET, SQL, Ruby, Selenium Browser Automation Framework, Various REST APIs, Command Line Manipulation and Tools

Languages (limited experience): JScript .NET, UnityScript, VBScript, VBA, PHP, Python, Node.JS, ExpressJS, SVG

Applications (experienced): Tableau, ElasticSearch, RabbitMQ, Asana, Visual Studio, Sublime Text, Atom Editor, Various Integrated Development Environments, Microsoft Office Suite, Microsoft SharePoint, Microsoft Dynamics CRM, CA Technologies Service Desk and Service Desk Manager, iWork Software Suite, iLife Multimedia Software Suite, Igor Pro, Alice, Scratch, All Internet Browsers

Applications (limited experience): Pentaho, Chef, Unity, GameMaker, Autodesk 3DS Max, Blender

Operating Systems (experienced): Mac OS X up to MacOS Sierra, All Windows up to Windows 10, Various Linux Based Operating Systems

References available on request.