Sam Fahlberg

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Technologies and Languages

Ruby, JavaScript, Elasticsearch, Docker, Rails, Backbone.js, PHP, jQuery, MongoDB, SQL, HTML, CSS, Linux, MATLAB, Stata, VBA, Agile, Heroku, REST, AJAX, Git, RSpec, TDD

Experience

	Position	Organization	Achievements
April 2015 to now	**Software Engineer**	**Education.com** San Mateo, CA	Worked in an agile environment in an education technology startup across frontend, backend, and devops
			Transitioned site to Elasticsearch from Sphinx
			Developed reports querying MongoDB and MySQL
			Dockerized development environment for ease of setup
			Implemented AB tests using Optimizely and an internal testing tool
2011 to 2014	**Research Analyst**	**International Monetary Fund** Washington, D.C.	Acted as data scientist for African countries, writing code in Stata and MATLAB for economic research and analysis; coded in VBA for a 4x increase in productivity
			Managed and updated SQL databases for five African countries. Was selected to travel to three African countries as the expert to manage the database software

Recent Projects

Project	Link	Description
Rebalancer	**Private Repo**	Crawls Vanguard.com, parses CSVs to determine what the user should buy or sell to rebalance the user's portfolio, developed using TDD
BuyCycle	**Live GitHub**	Bicycle marketplace using Backbone.js and Rails. Keyword search and price filter implemented by sending query strings to the server. Instant updates to the Google Maps API as there are updates to the collection. Built messaging capabilities within the app for buyer-seller communication
Weather or Not	**Live GitHub**	Data visualization of historical weather data using Backbone.js, Chart.js, and NOAA's API

Education

2006 to 2010	**BS Finance High Honors**	**University of Illinois**	Selected by faculty for Finance Academy: an enrichment program for the top 10% of finance majors
	GPA 3.83/4.00	Urbana- Champaign	

Activities: jazz trumpet, swing dance, mandolin, backpacking
Fluent in French
Eagle Scout Award