

# Sam Fahlberg

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Phone: (630) 337-3577 | Email: [sam.fahlberg@gmail.com](mailto:sam.fahlberg@gmail.com) | GitHub: [sfahlberg](https://github.com/sfahlberg)  
603 San Bruno Ave, San Francisco, CA 94107

## Technologies and Languages

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

## Experience

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	Position	Organization	Achievements
2015 to now	<b>Software Engineer</b>	<b>Education.com</b> San Mateo, CA	Worked in an agile environment in an education technology startup focusing on frontend, backend and devops  Transitioned site to Elasticsearch from Sphinx  Developed reports querying MongoDB and MySQL  Dockerized environment for ease of environment setup  Implemented AB tests using Optimizely and an internal testing tool
2011 to 2014	<b>Research Analyst</b>	<b>International Monetary Fund</b> Washington, D.C.	Wrote programs using Stata and MATLAB for economic research; used 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

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Project	Link	Description
<b>Rebalancer</b>	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
<b>BuyCycle</b>	<a href="#">Live</a> <a href="#">GitHub</a>	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
<b>Weather or Not</b>	<a href="#">Live</a> <a href="#">GitHub</a>	Data visualization of historical weather data using Backbone.js, Chart.js, and Gulp. Pivoted to NOAA API because of better structure and needing fewer API calls

## Education

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

Activities: Hackathons, volunteer tutor, trumpet, singer, baking (worked briefly at Charlie Trotter's in Chicago)  
Fluent in French, conversational in Portuguese  
Eagle Scout Award