Andrew Kayvanfar

1831 Grant Ave, Apt 301 | San Francisco, CA 94133 | (818) 634 – 2333 | akayvanfar@gmail.com |
www.andrewkayvanfar.com | LinkedIn | GitHub

Work Experience

Senior Software Engineer, Investor Squad Lead @ Upstart   **July 2014 – Present**

- Lead team of 3 - 4 engineers to support Capital Markets, Institutional Investors, Retail Investors, and Finance teams for marketplace lending platform approaching $1 billion in originations
- Manage and prioritize project pipeline for team, interfacing with several other departments across the company to advise on roadmap, requirements, and solutions
- Created highest output engineering sub-team as measured by incident response & story output through efficient prioritization, proper funneling of inbound requests, strong coordination with other departments, & mentorship
- Improved Investor API response times by as much as 100x through large revamp that included both the data pipeline & data serving layers
- Led implementation of an append only log system to ensure data accuracy across reporting infrastructure in preparation for $200mm securitization
- Improved report generation times & certain web app read times by over 10x through data denormalization that was optimized for reporting needs
- Created IRR visualization system to allow monitoring of returns across all loans, securities, investors, & various demographics by implementing a system to organize cashflow transactions for all loans on a daily basis

Vice President, ETF Trading @ Jefferies, LLC   **January 2010 – March 2014**

- Managed the International, Domestic, and Commodity ETF businesses, returning them to profitability in the first year and generating more than 80% of the ETF business' bottom line
- Wrote models and analytic tools in Visual Basic / Excel in order to improve market making capabilities and risk management both during and outside of market hours
- Coordinated efforts between New Business Committee as well as US, European, and Asian technology and operations teams in order to expand the firm's capabilities in International ETF trading and risk management

Portfolio

StreetEZ (Live | Source)   **May 2014**

- Cloned the residential real estate website streateasy.com using Ruby on Rails, Javascript, and Backbone.js
- Implemented dynamically updating map using Mapbox Javascript API, solved fixed floating issue when user scrolls using custom CSS, added map re-centering when hovering over a listing to improve UX
- Solved constrained search using nested forms and custom chained SQL queries
- Created a polymorphic Notifications model to alert users to their interactions with the app and each other
- Integrated Twilio for text message confirmation upon signup

Asteroids.js (Live | Source)   **April 2014**

- Recreated the classic arcade game Asteroids in browser with JavaScript and HTML5 Canvas
- Implemented wrap-around to allow asteroids and the ship to move through the sides of the game map

Technical Skills

- Ruby, Rails, Javascript, jQuery, Angular.js, SQL, Git, HTML, CSS, Visual Basic

Education

University of Pennsylvania   **2005 – 2009**

School of Engineering and Applied Science

B.S.E. in Bioengineering & Minor in Economics

Activities

Mentor, Minds Matter   **2011 – 2015**

- Work with high achieving high school students from low income families in a program focused on getting the students into competitive summer programs and universities

Personal Profile

- Laker fan, fitness nut, former coffee snob, aficionado of good company and great views