

# ARIEL HOU

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## WORK EXPERIENCE

### **LendKey**

**New York, NY**

*FinTech Lending Platform: Software Engineer*

*Nov 2015 – Present*

- Implemented major redesign of [LendKey Network](#) (LKN) with HTML/SCSS and adjusted existing Angular functionality
  - Singlehandedly built a lightweight version in Angular for use in conference demos and on-boarding
- Introduced A/B testing into LKN with Optimizely and a custom asset-swapping framework
- Created first core React component in main business app: a file uploader with AJAX submission and drag-and-drop, with feature detection to degrade gracefully
- Maintained main business app; resolved issues that required full-stack familiarity (jQuery & Rails)

### **Credit Suisse**

**New York, NY**

*Agency Mortgage CMO Trading: Associate*

*Jun 2011 – Jul 2015*

- Collaborated with 3 other traders to transact and oversee risk in the Agency CMO Derivatives books (market value >\$1B) in 9-person Agency CMO group ranked #1 on the Street by clients
- Personally responsible for the Agency Derivative oddlot book
  - Produced profit of +\$1.1mm in 2013, +\$2.1mm in 2014, and +\$1.6mm as of July 2015

### **Freelance Developer**

**New York, NY**

*Designer and Coder*

*Aug 2008 – Apr 2010*

- Individually developed projects from mock-up designs to final working sites for a variety of clients, primarily using HTML/CSS, PHP, and MySQL
  - For one client, learned ActionScript in 1 week to construct the requested Flash game

## PERSONAL PROJECTS

### **[Cocktailist \(GitHub\)](#)**

*Rails/Backbone site to browse and track cocktails from cocktail bars*

- Individually handled design and implementation of RESTful web API to catalog and list cocktails
- Integrates Omniauth for Facebook user authentication, paperclip with AWS for image uploads, and Google Maps/Places for bar information

### **[Bullet Hell \(GitHub\)](#)**

*Javascript shoot-em-up browser game*

- Draws all elements at 60 FPS using HTML5 Canvas and implements responsive user controls using jQuery
- Demonstrates OOP: created inheritance tree with several types of enemies and bullets

### **[Repost Repository \(GitHub\)](#)**

*Rails/Backbone link aggregation app inspired by Reddit*

- Recreates core Reddit functionality (subreddits, posting, voting) in an intuitive single-page app
- Recursively traverses comments to create nested comment threads in O(n) time using a hash

## SKILLSET

Javascript, Backbone, Angular, React, jQuery, HTML, CSS, SCSS, Ruby, Rails, SQL, Git, Wordpress, Photoshop, VBA, Bloomberg, Excel

## EDUCATION

**New York University, Leonard N. Stern School of Business**

**New York, NY**

*B.S. in Computer Science, Finance (Double Major)*

*Sep 2007 – Jan 2011*

- **GPA:** 3.81/4.0 (Magna Cum Laude, with High Honors in Computer Science)

## INTERESTS

Novels, Reddit, Trivia, Video games (RPGs, eSports), Cocktail bars, Home decor