

Minkang Yang

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EDUCATION

New York University

M.S. Computer Science, Courant Institute of Mathematical Sciences

Projected: 05/2020

GPA : 3.89/4.0

University of Illinois at Urbana-Champaign

B.S. Computer Engineering, College of Engineering (Bob Bohl Scholarship)

08/2013 - 05/2018

GPA : 3.5/4.0

TECHNICAL SKILLS

- Programming Languages: Java, C/C++, Python, JavaScript, HTML5, CSS3, SQL
- Technologies and tools: Flask, Jinja2, React JS, Express, Node JS, MySQL, SQLite, MongoDB, Hive

WORK EXPERIENCE

Android Developer Intern @ Onkore Inc., Redwood City, California, USA

06/2017 - 07/2017

- Built Mobile apps which engage thousands of viewers in Fantasy Gaming based on TV show The Bachelorette (**Java**)
- Implemented In-app Billing feature including receipt validation with Google In-App-Billing Library V3 and utilized RecyclerView view to layout all purchase options from our server
- Configured Google Dev Console with in-app purchase products and set up A/B testing on Google Dev Console
- Converted AsyncTasks to reactive pattern using RxJava to avoid memory leaks, and to improve error handling and readability

Associate Product Manager Intern @ Wontai Information Co., Hangzhou, China

05/2016 - 07/2016

- Designed online social networking functions for a community App for 10000+ users
- Defined success metrics and analyzed performance, balancing quantitative and qualitative insights

PROJECTS

H-1B Analysis: Big Data Analysis with Hive and Hadoop

10/2018 - 11/2018

<https://github.com/myang39/h1b-analysis>

- Built a big data analysis workflow containing 5 Map Reduce (**Java**) jobs to process 1.01 million records of H-1B application
- Cleaned and profiled the data with Map Reduce including selecting useful fields, filtering out garbage contents, and collecting statics and informative summaries about the data
- Standardized data schema, normalized data fields and transformed data into desired types and structures
- Discovered industry groups by extracting high frequency keywords from the whole data set using Map Reduce word count and categorized each record into a specific industry using keywords matching
- Analyzed the distribution of processing duration, employment duration, work location, wage rate, occupation and their relation with visa processing status using Hive and included the results in paper (<https://github.com/myang39/h1b-analysis/blob/master/paper.pdf>)

Hermes: a Spring and Hibernate based Shopping and Ordering system

09/2018 - 10/2018

<https://github.com/myang39/Hermes>

- Used Spring framework to build a web application for users to shop and order items online
- Built a web application based on **Spring** MVC to support item search and listing (dependency injection, inversion of control, REST API etc.)
- Used Spring Security to implement JDBC authentication workflow
- Utilized Hibernate to provide better support of database operations
- Developed a Spring Web Flow to support item ordering
- Used JSP to build frontend pages for better visualization
- Integrate with Ads system and implement bidding algorithm to deliver best ads to users

React JS based NBA Player Strength Visualization

01/2019 - 01/2019

<https://nba-web-d86ec.firebaseio.com>

- Created a dashboard using **React**, D3, and Ant Design backed by API from stats.nba.com to visualize individual player's shot data, including a shot chart and user profile view
- Created 4 extra filters and 2 shot themes (hexbin and scatter) to provide more customized visualization on the shotchart
- Developed a autocomplete player search bar providing a list of players (image and name) in the suggestion list

RESEARCH EXPERIENCE

Web analysis: UIUC Career GuideBook (2017 UIUC Undergraduate Research Symposium)

01/2017 - 04/2017

- Built a web crawler (**python** selenium) and get 25,000 public data of UIUC alumni in LinkedIn
- Implemented stand-alone data preprocessing module to cope with the data imputation problem with robust inference techniques
- Performed data visualization and analysis to illustrate academic background, career interests, and geographical distribution of UIUC alumni using Pandas
- Nominated as the Best Project of the Year