

Young Rae Kim

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EDUCATION

Brown University. Providence, RI.
Computer Science-Applied Mathematics, Sc.B.

May 2017
(Expected)

Selected Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, User Interfaces

LANGUAGES & TECHNOLOGIES

| | | |
|-------------------------------------|--|-----------------------|
| Java, Javascript (ES6) | Node.js | (Most Experience) |
| CSS, HTML, Mustache, PHP, SQL | Backbone.js, Bash, Git, Sails.js | (Moderate Experience) |
| C, C#, \LaTeX , OCaml, Scala, VB6 | AngularJS, Dropwizard, HAProxy, MongoDB, Nginx, PostgreSQL | (Previous Experience) |

WORK EXPERIENCE

Wayfair

Software Engineering Intern

Boston, MA

June - August 2016

- Built data processing and graphing tool using Highcharts.js, PHP, and MSSQL to help Wayfair marketers uncover trends.
- Rewrote Customer Hub in Backbone.js and PHP for the Tracking Events & Integration team: a web app to view tracking events in realtime. Streamlined the verification process for new & modified events, reducing team workload by 7%.
- Solved long-standing, high-priority task of sending Customer Hub data to/from a Java websocket server over HTTPS/WSS.
- Completed sprint backlog tasks (e.g. modifying Apache Storm topologies in Java) contributing to 11% of team's points.

Brown Computer Science

Teaching Assistant, Database Management Systems

Providence, RI

September - December 2015

- Held office hours to address course concerns, resolve ambiguities, explain concepts, and guide students to solutions.
- Prepared content for and held regular recitation sessions to explain challenging lecture topics with greater detail.
- Created assignment handouts, constructed rubrics, and wrote bash and Google API scripts to grade and release scores.

Modernizing Medicine

Software Engineering Intern

Boca Raton, FL

June-August 2014 & 2013

- Developed a Java app to capture, process, and post data as XML from Ophthalmic devices to the ModMed web service.
- Ported above data capture logic from VB6 DLLs using a Java-COM bridge and implemented cookie-based authentication.
- Added a core feature to ModMed's ophthalmology product without needing to rewrite thousands of lines of VB6 code.

PERSONAL PROJECTS

Hypecop

- Full stack web application reducing average user item purchase times for high-demand online retail items by 72%.
- Includes: realtime pricing and item ranking algorithms, a web scraper & parser, and a user registration & auth system.
- Frontend powered by jQuery, AngularJS, and Bootstrap. Served by Express.js with PostgreSQL database on DigitalOcean.

Synchronized Audio Manipulator (S.A.M.)

- Surround sound, spatially aware Java music player using web browser-capable devices (e.g. laptops, phones) as speakers.
- Implemented synchronous playback across devices by streaming music from the Java server to speakers using Socket.IO.
- Designed and implemented the music metadata database, frontend filesystem explorer, and song search algorithm.

LEADERSHIP EXPERIENCE

Brown Poker Club

Founder, President, Adviser

Spring 2014 - Spring 2016

- Led a team of 7 to pursue growth initiatives, design a year-long strategy curriculum, and organize various events.
- Taught weekly strategy sessions covering: optimal betting ranges and adjusting to table dynamics - among other topics.
- Organized and acquired sponsorship for the first annual Brown Poker Tournament on campus, drawing over 70 attendees.
- Secured \$1,500 in funding during first year of operations to supply club with playing equipment and other necessities.