

# Alona King

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## EDUCATION

**STANFORD UNIVERSITY** | BS IN COMPUTER SCIENCE | EXP. MAY 2017

Dean's Award for Academic Excellence 2014

**CARL SANDBURG HIGH SCHOOL** | ORLAND PARK, ILLINOIS | GRAD. MAY 2013

Top 1% in class of 900

## SKILLS

### PROGRAMMING BACKGROUND

Languages: C++ • Java • JavaScript • HTML • CSS • C • Swift • MySQL

Frameworks/Libraries: Ruby on Rails • Angular.js • MEAN Stack • jQuery

## EXPERIENCE

### CONOCOPHILLIPS | SOFTWARE ENGINEERING INTERN

June 2015 – Aug 2015 | Houston, TX & Bartlesville, OK

Successfully engineered full rebuilds of 3 outdated .Net applications using Rails and MEAN stack

Developed more intuitive Angular.js front-end views and resolved RESTful API bugs for HR web-app

Analyzed newer technologies for cost savings, maintainability, performance and technical advantage

### STANFORD CS DEPARTMENT | CS 106A SECTION LEADER

May 2015 – Present | Stanford, CA

Instructed 10-15 students and graded coding projects with focus on clean code and functionality

Provided course help and debugging assistance in Java and C++ in campus computer lab

Motivated and encouraged incoming students about CS major and technology field

### GOOGLE CODEU VIRTUAL CODECAMP | PARTICIPANT

May 2015 – Aug 2015 | Stanford, CA

Developed StuddyBuddy, an Android app to find study groups using Java and Android Studio

Integrated cloud-based database Parse to easily push, pull and store data on the back end

Completed technical exercises on algorithms and data structures; practiced skills in mock interviews

### STANFORD RADIO FREQUENCY LAB | HEAD UNDERGRADUATE RESEARCHER

Sept 2014 – Aug 2014 | Stanford, CA

Wrote an approved \$6000 grant proposal to build portable version of conventional oscilloscope

Successfully built and tested hardware for laptop based oscilloscope under EE Prof. Tom Lee

Designed robust, extremely low cost components to replace traditional parts; still in use

## PROJECTS

### OURBLOC.CO PROFESSIONAL NETWORK | LEAD RUBY ON RAILS DEVELOPER

June 2015 – Present | Stanford, CA & Princeton, NJ

Leading team from Princeton to launch LinkedIn + Twitter styled app connecting Black collegians

Built entire app using Rails; wrote functionality for student views, tags, search, messaging

Initiated Agile software development methodologies to ensure timely iteration of prototypes

### VIRTUAL REALITY HAPTIC TOUCH | JAVASCRIPT DEVELOPER

April 25, 2015 | 12-hour HackOverflow Hackathon, Stanford, CA

Created ability to feel virtual worlds with finger motors, a Leap Motion Controller, and an arduino

Coded leap.js script to send JSON to arduino to start motors whenever hand touches virtual surface

Implemented Three.js "virtual playground" demo with shapes for touching and realistic physics

### PAST PROJECTS | Swift iOS Recipe app, Raspberry Pi "Smarter" Lights, Laptop EKG

## SOCIETIES

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## AWARDS

2015	International	Anita Borg Institute GHC Scholar
2015	1 <sup>st</sup> out of 25	Stanford HackOverflow Hackathon
2015	Stanford	Chair of Stanford Women's Leadership Conference
2013	State	Illinois State Scholar
2013	State	All-State Water Polo
2013	District	\$24,000 Victor J. Andrew Scholarship