

# YILIN(ELAINE) GUO

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## EDUCATION

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### University of Michigan

*Expected Apr 2017*

B.S.E. in Computer Science Engineering

Courses taken/taking: data structures and algorithms, database, operating systems, machine learning, mobile app development

Honors: Dean's list, 2015 - 2016 academic year

### Shanghai Jiao Tong University, China

*Expected Aug, 2017*

B.S.E. in Electrical and Computer Engineering

Honors: Dean's list, 2013 - 2014 academic year

## WORK EXPERIENCE

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### Technical Intern

Aug 2016

*Logic Solutions, Inc.*

*Ann Arbor*

- Built an IOS app that allows users to browse movies and shows currently airing on their television provider
- Created a trivia game that lets users play while watching, with a badge-rewarding system
- Implemented reminder function to alert users when their favorite shows are about to air

## PROJECTS

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### Mobile Sakai Android App

May 2014

- Designed for students to browse resources, query assignments and exam grades
- Requested the Sakai 10 API for due time, appointment time, etc.
- Implemented reminder function to alert due time

### Cross-4 Chess Game

Sept 2015

- Let two players play by turns in separate windows until one player wins by getting four pieces consecutively in a row
- Socket programming with one server and two clients
- GUI implemented with Java *swing*

## RESEARCH EXPERIENCE

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### Crossword Solving System

May 2016

*University of Michigan, with Prof. Dragomir Radev*

*Ann Arbor*

- Wrote a classification component with *sklearn*: vectorized the clues in terms of vocabulary in the database; trained the clue-answer pairs with different models including nearest neighbors, convolutional neural networks, etc.
- Used python 2 to generate better output form (sorted by weighted score) from predicted answers by all the crossword solving components including lucene-cwg, lucene-otsys, etc.

## TECHNICAL STRENGTHS

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### Computer Languages

C++(proficient), Java(proficient), Objective-C(proficient),  
C(prior experience), Python(prior experience)

### Other Languages

SQL, html, css

### Tools

git, gdb, valgrind, vim