

YILIN(ELAINE) GUO

1861 Shirley Lane Apt B2, Ann Arbor, MI 48105

(734)846-1766 ◊ guoyilin@umich.edu ◊ <https://yilinguo.github.io>

EDUCATION

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

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

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

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

Fields of Interest

iOS development, Android development, back-end development

Computer Languages

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

Other Languages

SQL, HTML, CSS

Tools

Git, Vim, GDB, Valgrind