

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

Apr 2017

B.S.E. in Computer Science Engineering

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

Shanghai Jiao Tong University, China

Aug 2017

B.S.E. in Electrical and Computer Engineering

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