YINA ZHU

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PROFILE

- Coding experience in Java, JavaScript, Python, Ruby, C/C++, C#
- Hands-on experience in Android app and website development in both front end and backend

EDUCATION

Computer Science & Engineering Department, University of Washington, WA
09/2015 - present
- B.S. in Computer Science (expected Fall 2017)
- GPA: 3.61/4, Honor: Dean's List
- Courses: Foundations Comp I + II, HW SW Interface, Programming Langs
  SW Design & Impl, Data Structure & Parallelism, System Programming
  AI, NLP, Software Engineering

Cascadia College, WA
03/2014 - 06/2015
- A.A. in Integrated Studies
- GPA: 3.98/4, Honor: President's Honor

WORKING/ RESEARCH EXPERIENCE

Research Assistant, Taskar Center for Accessible Technology
University of Washington — 10/2016 - present

AccessMap Project:

- Developed a crowdsourcing web application for users to input crossing data with provided Aerial map view and sidewalks data. In charge of design and implementation using Django and Leaflet with Python and Javascript

Research Assistant, Human Ability & Engineering Lab
University of Washington — 12/2015 - 11/2016

Gillette Hand Tracking Project:

- Refined hand tracking projects to record hand videos and convert to tracking data

Infant Movement Project:

- Developed an Android app to help research in early cerebral palsy diagnosis. Implemented face detection and blurring functions for privacy protection using OpenCV and FFmpeg
- Visualized motion capture data of infant movements and analyzed data with deep learning tool (Caffe)

Office Assistant, Cascadia College International Programs
Bothell — 08/2014 - 06/2015
- Led a volunteering team to organize community service events for international students

CLASS/ HACKATHON PROJECTS

- **Flush**: Led a team of 3 programmers to develop an Android app with Google Maps API that displays restrooms on the UW Campus with accessible information and allows users to search by needs
- **Oratorio**: Drove a team of six developers to design and develop a public speech coaching website using Django for users to record their speeches and receive feedback and analysis based on their pace, tone, emotion and frequently used words (https://github.com/PotatoTank/oratorio)
- **333gle**: Developed a simple search engine on localhost that searches for given keywords in files under given directory using C and C++
- **Tetris**: Refined and improved a basic Tetris game in Ruby
- **Campus Route Finder**: Developed a Java application with a map-view GUI that shows the shortest distance between two selected buildings on University of Washington campus
- **Chess**: Solved chess matching problem utilizing Minimax, Alpha-beta pruning and parallelism
- **uMessage**: Collaborated with a teammate to investigate various data structures and sorting algorithms, and chose the best one to code a word suggestion function in Java for a chat application
- **Zip**: Programmed a Hash Trie Map that stores and searches for words, used for compressing text files

LANGUAGE

- Chinese, English, Japanese (trilingual level)
- Spanish (entry level)