



DOROTHY CHANG

SOFTWARE ENGINEER | UNIVERSITY OF PENNSYLVANIA '19

SKILLS

Languages

Java

OCaml

Javascript

CSS

HTML

C#

Python

MySQL

R

Technologies

Unity

Linux/Unix

JUnit

Swing

Android

AWS EC2

Eclipse

Sublime

Data

Essentia

RStudio

Elasticsearch

Logstash

Kibana

EXPERIENCE

CIS 120 TA • UNIVERSITY OF PENNSYLVANIA • AUG 2016-PRESENT

Develop and teach material for weekly recitation of approximately 20 students.

Conduct one-on-one code reviews with students to reinforce best coding practices.

Hold weekly office hours for students to get help on lecture material, homework, etc.

SOFTWARE INTERN • AURIQ SYSTEMS • MAY-AUG 2016 (LINUX, RSTUDIO, ELASTIC STACK)

Wrote scripts to use Essentia, a data lake management platform, to organize raw data.

Modeled data from large public data sets on different platforms including RStudio and Kibana.

RESEARCH INTERN • UNIVERSITY OF SOUTHERN CALIFORNIA • JUNE-DEC 2014 (ANDROID)

Implemented user activity and head movement tracking in a Google Glass Android app.

EDUCATION

BSE, COMPUTER SCIENCE • MAY 2019 • UNIVERSITY OF PENNSYLVANIA

Mathematical Foundations of Computer Science; Programming Languages and Techniques I & II in Java;

Data Structures and Algorithms; Automata, Computability, and Complexity; Javascript; Algorithms II (IP)

PROJECTS

BATTLESHIP GAME • MAY 2016 (JAVA, SWING)

Created a Battleship game in which users play against an enemy AI on 2-D gameboard.

Includes real-time status display and leaderboard, incorporates complex search, file parsing and I/O.

OHQ: OFFICE HOURS QUEUE • SEP 2016 (JAVASCRIPT, CSS, HTML, FIREBASE)

Built an office hours queue web application at PennApps (hackathon at Penn).

Implemented front end and back end functionality: maintaining real time database of students, updating interactive display, and tracking relevant metrics.

DATA VISUALIZATION IN VR • NOV 2016 (C#, UNITY, CARDBOARD)

Built a data visualization application using Unity game engine at YHack (hackathon at Yale).

Data modeling is animated in virtual reality (used with Cardboard headset).



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