



DOROTHY CHANG

SOFTWARE ENGINEER | UNIVERSITY OF PENNSYLVANIA '19

SKILLS

Languages

Java

Python

C

OCaml

Javascript

CSS

HTML

MySQL

C#

Technologies

Unity

Linux/Unix

JUnit

Swing

Android

Visual Studio

Eclipse

Sublime

Data

Essentia

RStudio

Elasticsearch

Logstash

Kibana

EXPERIENCE

DEV/PM INTERN • MICROSOFT • MAY-AUG 2017 (CURRENT)

Software development and program management intern.

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.

CIS 320 TA • UNIVERSITY OF PENNSYLVANIA • JAN 2017-PRESENT

Develop and grade homework and exam material for introductory algorithms class.

Conduct weekly office hours where students can clarify lecture material and get homework help.

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

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

EDUCATION

BSE, COMPUTER SCIENCE • MAY 2019 • UNIVERSITY OF PENNSYLVANIA

Programming Languages and Techniques I & II in Java; Data Structures and Algorithms; Automata, Computability, and Complexity; Algorithm II; Javascript; Python; Introduction to Computer Architecture

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 and back end: real time database, interactive status display, and metrics tracking.

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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