DC

DOROTHY CHANG
SOFTWARE ENGINEER | UNIVERSITY OF PENNSYLVANIA '19

SKILLS

Languages
Java
Python
C
OCaml
Javascript
CSS
HTML
MySQL
R
Technologies
Unity
Linux/Unix
JUnit
Swing
Android
AWS EC2
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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