

Daniel Cao

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EDUCATION

UNIVERSITY OF HOUSTON

BS IN COMPUTER SCIENCE

Expected date: Dec 2019

College of Technology

GPA: 3.09

LINKS

LinkedIn:

www.linkedin.com/in/danielduycao

GitHub:

www.github.com/danielduycao

Website:

<https://danielduycao.github.io/>

SKILLS

PROGRAMMING

Proficient:

Java • C++

Competent:

HTML • CSS • JavaScript

Python

Familiar:

Matlab • R • SQL • Kotlin

TECHNOLOGIES

JavaScript Libraries & Frameworks:

NodeJS • ExpressJS

Bootstrap 4 • React • Redux

JQuery

Python Frameworks & Libraries:

Scrapy • Splash • Keras

Tensorflow

Miscellaneous:

MongoDB Atlas • Heroku CLI

Cloud 9 • AWS S3 • Oracle SQL

Elastic Search 7 • SQLite

COURSEWORK

Data Structures • Algorithms

Computer Networks

Database Systems

Fundamentals of AI

Operating Systems

Software Engineering

Game Art and Animation

Interactive Game Dev

EXPERIENCE

SECURUS TECHNOLOGIES | SOFTWARE DEVELOPMENT INTERN

June 2019 - Present | Houston, TX

- Designed a web scraping python program that scrapes coordinates of crimes to improve zone creation for offenders
- Populated an Elastic cluster with crime data as a pipeline process
- Analyzed data samples for crime trends using deep learning on SQL queries
- Worked with team of software developers for feedback on improving the program during scrums
- Utilized Python, Scrapy, Splash, Keras, Elastic Search

PROJECTS

PATH LEARNING AGENT | REINFORCEMENT LEARNING

- Designed agent-based system that explores and learns in initially unknown environment and which is capable to adapt to changes
- Used Q-learning and SARSA algorithms to populate the q-table
- Organized group meetings to delegate tasks to group members
- Developed visualization of q-table implementing GUI using PyQt
- Utilized Python3 and PySide2

MOM'S COOK BOOK | MOBILE APP THAT STORES RECIPES

- Android Mobile app that allows users to create recipes with user-friendly UI
- Designed UI/UX blueprint in Adobe Xd
- Stores recipes using Firebase database service
- Developed front-end application in React and Redux to manage application state

PHOTO SHARE | SIMPLE SOCIAL MEDIA PHOTO SHARING APP

- An Android mobile application that allows users to upload their photos to their accounts
- Utilized Parse server on AWS S3 to store account information and photos
- Developed using Android Studios 3.4

POCKET EAR | WEB APPLICATION

- Application that helps musicians with ear training in quiz-styled UI
- Implementing JavaScript, CSS, Bootstrap 4, and HTML for front-end development
- Recorded custom .wav files using Logic Pro