

ASHLEY CUI

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EDUCATION

Boston University College of Engineering, Boston, MA

May 2020

Bachelor of Science in Computer Engineering

Relevant Coursework:

Computation in Python, Applied Algorithms & Data Structures, Software Engineering, Advanced Data Structures

TECHNICAL SKILLS in order of proficiency

Languages: Python, C++, Java

Miscellaneous: Git, Jira/Agile, AWS/ Cloud Deployments

EXPERIENCE

Constant Contact, Waltham, MA

June – August 2018

Security Research Intern (Software Engineering)

- Created Splunk apps to query email logs and protect against email abuse, alleviating the need to manually search mail logs for bad actors
- Used Python to parse JSON data and connect to various API's (Google Safe Browsing Phishtank, 250ok)
- Implemented HTTP server with REST endpoints to handle requests from Splunk and responses from API's
- Deployed HTTP server & Google Safe Browsing database in AWS Lambda & AWS EC2 with GoLang

Boston University Dining Services, Boston, MA

March – May 2017

Barista

- Maintained quality and consistency in crafting beverages in a high-volume location through multitasking
- Followed and enforced strict sanitization protocols for food safety compliance

PROJECTS

Coordinate Finder

December 2018

- Implemented KD-tree to store geographic spatial data in Java
- Used nearest neighbor search and KNN machine learning algorithm to classify point into county
- Compared build-time and search time of median balanced and unbalanced KD tree

PlaylistRun

December 2018

- Used Google Distance Matrix API to route round-trip run based on user-given Spotify playlist
- Built using Flask, a Python web framework and MySQL database

SonicSwype, PennApps, University of Pennsylvania, Philadelphia, PA

January 2018

- Web-based “Tinder for Spotify” application – using Spotify’s related artists’ function to generate a custom playlist based on user’s previous listening history
- Built backend using Django Python framework and Spotify API

BU Calendar Import Tool

December 2017

- Parsed image generated by BU’s scheduling portal and created Google Calendar, alleviating need for manual importing
- Built backend using NodeJS for quick asynchronous performance
- Debugged and upgraded OAuth protocol to comply with Google’s most recent requirements