Hyunsoo Im

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Education

George Mason University — Fairfax
BS Computer Science *GPA: 3.47 major/ 3.11 overall* — Sep 2017 - Expected Spring 2022

Skills

Programming Languages:	Java, C, Python, Javascript, Object Oriented Programming, HTML & CSS
Other:	TCP & UDP networking, VIM, PuTTy, Linux, WireShark, Github

Relevant Courses

Currently taking WebApp developing classes that works with RESTful APIs and React. As well as a Database class that works with SQL and Oracle

Work Experience

Dynoplex Research — George Mason University, Fairfax
Research Assistant — September 2021 - Present

- Developing a software that calculates the complexity of recursive functions using traces placed in the function
- Using C to convert incompatible iterative programs into recursive programs
- Planting traces in functions that allows the software to collect the depth of the recursion each time it enters
- Building communication skills and teamwork using Slack, Github version control and zoom

KIC X George Washington University — DC
Mentor intern — June 2018 - July 2018

- Worked with teams with their products on how it can improve its features and marketing.
- Increased number of interacts and surveys filled out by pedestrians around DC.
- Translated English to Korean teams with language barrier.

Uptown Cafe — Conference Center, Chantilly
QuickBook Assistant — May 2019 - present

- Organizing monthly bills and spendings for the restaurant CPA
- Inputting daily costs and sales individually onto QuickBook for compresible summary
- Assisting as a cashier during hectic lunch hours

Projects

Crimes in DC (Fullstack) *JavaScript, React, Express.js, Node.js, heroku, HTML, CSS*
Created my own microservice using express.js that fetches a dataset about crimes in DC and provided endpoints for manipulating data added onto firebase for persistence. Had get and post endpoints that showed analytics of the data. Used React to display a non-interactive display of the manipulated data.
https://hyunsoo-im-swe432-hw3.herokuapp.com/

Interpolation binary/adaptive search *Python*
Programmed a different approach on utilizing interpolation and binary search to lower the complexity time. Shortened the worst time for interpolation search from $O(n)$ to $O(logN)$ by finding the smaller boundaries each iteration between interpolation search and binary search.

KDA Calculator *C*
Created a front end only webapp that calculates the KDA (Kills/Deaths/Assist Ratio) of inputted information by the user. Implemented UI that allows users to fill out the required imformation with ease.
https://hyunsoo-im-swe432-hw4.herokuapp.com/

Deddit *JavaScript*
Developed a discord bot using discord's Node.js module that imitates online questioning platforms such as "Reddit" or "StackedOverFlow". Followed an agile framework, scrum, in order to manage our weekly goals with sprints and meet the "client's" requirements on time.

Authorized to work in the US (Permanent Resident)