Jonathan J. Allarassem

804-773-9764 | AllarassemJJ20@gcc.edu/ allarassemjonathan.github.io

EDUCATION

Grove City College, Grove City, PA (ABET accredited)
Bachelor of Science in Computer Science (Expected 2024) GPA 3.84
Dean's list with High Distinction Fall / Dean's list with Distinction Spring
> Selected Coursework: Computer Programming I, Computer Programming II, Database Management System, Data Structures and Algorithms, Statistical Methods, Discrete Math and Applied Probability.

SKILLS

Programming/ScriptingLanguages: Java(expert), Python(fluent), C/C++ (prior experience), MySQL(fluent), HTML(fluent), CSS(fluent), PHP(prior experience), Wolfram Language (fluent), MATLAB (prior experience),Octave Language (prior experience).
Frameworksandtools: Eclipse, Sublime Text, Python IDE, Microsoft Workbench, GitHub, Nano, ARDUINO IDE, Adobe Creative Cloud, Photoshop, Adobe Bridge, Adobe Illustrator, InDesign, Ubuntu Linux.

EXPERIENCE

Java Programming tutor
July 2021 - now
- Because of my outstanding results in my two first programming classes, I was able to apply and be accepted to this job. My work consists in debugging, advising and helping students in difficulties, or struggling with their assignments.

Research Student
Summer 2021
- Developed an application (in Python) that generate plausible human text, using Markov chains models and n-grams. The algorithm used was trained on books like Frankenstein, Sherlock Holmes accessed in txt files through datasets like the Gutenberg project (project here).

Web Developer (Volunteer)
Summer 2020
- Help my church in Senegal (home-country) to build a website for our youth group. I worked with a team of 3 web developers on the frontend and backend of profile pictures of pages. We designed and implemented functionalities using the Laravel PHP framework, Apache, MySQL, and HTML/CSS (project here).

PROJECTS

Thanos Chat bot
December 2020 - January 2021
- Created a DISCORD chat bot (Thanos), with python and the DISCORD API, to execute tasks like monitoring the chat, sanctioning any abuse or harassment by censoring the user. Thanos can also query Wikipedia, send emails to people, and generate posters (project here).

Wikipedia Java API
Spring break 2021 - Present
- Co-created the Wikipedia Java API with a friend which is an Open-source project, an attempt to provide a consistent API to allow Java users to query Wikipedia. Using JSOUP, we designed and implemented an Oriented Object structure(classes, methods and member variable) that was able to facilitate the access to information in the website (project here).

Karnaugh Table Solver
May 2020 - Present
- Created the Karnaugh table solver (coded in C). The Karnaugh map (KM or K-map) is a method of simplifying Boolean algebra expressions. The Karnaugh map reduces the need for extensive calculations by taking advantage of humans' pattern-recognition capability. I used basic recognition techniques to try to generate table based on the user input (project here).

ACTIVITIES

Engineer with a Mission (member)
Spring 2021 - Present
- The goal of this club is to help organization in the US and around the world by providing financial help and/or scientific support. This year we helped Takataka a Ugandan startup by working on improving their motors (takataka).