Malek Azadegan

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EDUCATION

CONCORDIA UNIVERSITY
BCompSc Computer Science
Minor: Linguistics
Expected May 2024 | Montréal, QC
Cum. GPA: 4.03
Good standing | Dean's List

UNIVERSIDAD CENTROAMERICANA
BSc.Systems Engineering
Oct 2016-Apr 2018 | Managua, Nicaragua

RELEVANT COURSEWORK
Object-oriented Programming
System Hardware
Data Structures & Algorithms

SKILLS

PROGRAMMING LANGUAGES
Python • Java
HTML/Javascript/CSS

FRONTEND
Frameworks:
Vue/React • TailwindCSS/Bootstrap

BACKEND
Frameworks:
Flask • Express
Hosting/Database:
Heroku • MongoDB

OTHER
Tools:
Git/Github • Jira

SPOKEN LANGUAGES
English - Native
Spanish - Native
French - 785 TFI

PROJECTS

PYMATRIX | Linear Algebra Operations Tool
June 2021 – July 2021 | Montréal, QC

- Developed python module for handling elementary matrix operations, as well as determinant/inverse and minor/cofactor computation.
- Designed and coded the webapp's frontend using Vue and TailwindCSS, published it to Github pages.
- Implemented the webapp's backend using Flask and hosted it using Heroku.
- Future goals: Extend the module's functionality using SymPy for operations where variables are required, such as in eigenvalue/eigenvector calculation.

The main goal for this project was to familiarize myself with linear algebra operations and how computers do this type of math. All of the functionality in the module I made can be found in other packages such as NumPy.

VISUAL FACTOR SEGREGATOR | Concept Tool
October 2021 | Montréal, QC

- Developed online tool for showcasing an example of visual factor segregation.
- Designed and coded the webapp's frontend using plain ol' HTML, CSS, and Javascript.
- Published it to Github pages.
- Future goals: Either handle the myriad bugs, or completely refactor the site using Vue or some other framework.

LISTRACK | User Registration/Validation System
June 2020 – July 2020 | Montréal, QC

- The idea behind this project was to learn how to use MongoDB, so I made a user registration, email validation, and password recovery system by hand.
- Designed and coded the webapp's frontend using Vue and TailwindCSS, published it to Github pages.
- Implemented the webapp's backend using Flask and hosted it using Heroku.
- Used Flask, Google's SMTP servers, MongoDB, and bcrypt to hand-make a user registration, email validation and password recovery system.

This was purely an exercise for learning some new tools and concepts. All of the functionality I made can be found ready-to-assemble in frameworks like Express or Django.