Mohamed Eltayeb

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Technical Skills

Web Development: PHP, HTML5, CSS3, JS,Node.js Vue.JS, Bootstrap, WordPress

Programming: Java, Python, Scala, C , Ruby On Rails, Scheme, Bash

Databases: SQL, MySQL, PhpMyAdmin, SQLite, FileZilla

Version Control / Other: Git, Maven, Podman, Docker

Education

BSc Computer Science (Hons)   University College Dublin   Sept 2019 – Jun 2023

Predicted grade: 2:1

Course Work: Artificial Intelligence, Programming for Big Data, Algorithms, Data Structures, Computer Systems, Networking, Graph Algorithms, Object Oriented Programming, Web Development, Databases and Information Systems, Predicate Calculus, Linear Algebra 1 & 2, Statistics, Logic, Software Engineering 1 & 2, Probability Theory, Innovation, Entrepreneurship

Experience

Software Engineering Intern   Red Hat   Mar 2022 – Sept 2022
- Contributed in the upstream community, including contributing new development work, Tests, bug fixes, and release automation in the Fedora CoreOS Team.
- Worked on the Fedora CoreOS website using Vue.js and contributed functionality
- Contributed to the development, operation, and maintenance of next generation build systems.
- Participated in pull request reviews and small team demos

Kitchen Porter   Waterford Castle   June 2021 – August 2021
- Supported the smooth running of kitchen production areas and assisted with basic food preparation.

Projects (https://github.com/mohelt)

- **Finetuning of wav2vec 2.0 (Coursework grade: A) -** wav2vec 2.0 is a self-supervised deep learning model which has been applied to many speech signal applications such as speech recognition and emotion recognition. Fine-tuning the model has been shown to increase performance in speech quality prediction. This project evaluates the impact of fine-tuning wav2vec 2.0 on different languages and datasets to see if it will increase the model's performance on speech quality prediction and to investigate the effects of different datasets.

- **aitrainer.co (Personal Project) –** This project allows users to create unique diet and fitness plans. This project harnesses the power of GPT-3 API as the backend to provide tailored fitness advice. This is a node.js project and uses Bootstrap 3, HTML and CSS for the frontend.

- **Contributed to ChRIS Research Integration Service (Open Source Project)** It is web-based medical image platform that allows for various forms of medical image processing (for example, MRIs) and is a collaboration with Boston Children's Hospital, Boston University, and Red Hat. I helped set up Antora (an Asciidoctor documentation toolchain) for the project and worked on a plugin.

- **Anonymousask.com (Personal Project)** is a startup which allows users to give anonymous feedback and ask anonymous questions. This is a PHP and MySQL project and uses Bootstrap 3, HTML and CSS for the frontend. Currently has 70 active members.

- **CarHub (Personal Project)**– Used **Java** and **Android Studio** to create an android app which displays info on the hottest new model cars and spec for the latest and greatest cars from the leading manufacturers.
- **Risk Board Game (Coursework)** – Worked in teams of 3 to recreate a graphical application of the board game. Used **Scrum** method and **Agile** development techniques. Used **Java Swing**.
- **JustFeast (Personal Project)** – **HTML5, CSS3**, **MySQL** and **PHP** website where users can log in and order food and check the availability of items on the menu. **Bootstrap** used for frontend design.
- **Focus Board Game (Coursework)** – Created graphical board game using **C** and played in command line.

Awards

Presented wav2vec 2.0 Final Year Project at The All-Ireland Conference for Undergraduate Research **– Apr 2023**

Participated in the 2020 KPMG Ideation Challenge and was a finalist who made it to the final 5 teams. – **Feb 2020**

Awarded Entrance Scholarship Award by UCD – **Sept 2019**