Mohamed Harby

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EDUCATION

Bachelors of Computer Engineering, *Tanta University* Sept 2018 — June 2023
Major Electrical Engineering (in-major grade: 76.84%)
Certificate (Minor) Computer Engineering
Programming Coursework Data Structures & Algorithms, Databases, Operating System, Networking, Machine Learning.

EXPERIENCE

Java Developer, Intern Apr. 2023 — Oct. 2023
JobHacker *Cairo, Egypt*

- Accomplished proficiency in Java, OOP, Databases, Hibernate, and Spring (Boot, Core, MVC, Data, Security).
- Achieved competence in utilizing software engineering tools, including UML diagrams and Git.
- Gained practical experience in building enterprise-scale Java applications.
- Leveraged knowledge in Spring Framework, Databases, Java technologies, and Git.

Software Developer, Intern Aug. 2022 — Nov. 2022
bld.ai - Openstack team *Remote, USA*

- Reduced new projects creation and configuration time for developers by developing a projects creation tool with plenty of boilerplate code for their use.
- Incorporated Git technologies for building various projects with customized configurations effectively.
- Developed a web application and a CLI tool to help developers use the creation tool easily.
- Leveraged knowledge in JavaScript, Python, Web development, Git, agile methodologies.

SOFTWARE PROJECTS

Recommendation System
- Used hybrid approaches (Content-based filtering and Collaborative filtering) to generate a list of candidate channels to each user.
- Used Cosine and Jaccard similarity metrics to generate the candidates.
- Increased the coverage by doing exploration and exploitation using Epsilon-Greedy approach.
- Utilized Content-based filtering, Collaborative filtering, similarity metrics.

E-Commerce
- Developed a microservice system for E-Commerce
- Designed a virtual rosary at the bottom, allowing users to increment the counter with a thumb press.
- Utilized HTML, CSS, JavaScript.

Textify
- Created Textify, a command-line application for text summarization, sentiment analysis, and named entity recognition, utilizing external APIs for text analysis and processing.
- Facilitated text-related tasks for users by providing a convenient command-line tool.
- Utilized JavaScript, Node.js.

Sorting Visualizer
- Developed a C++ application that visualizes common sorting algorithms like merge sort, quick sort, and insertion sort.
- Provided interactive visualization of the sorting process, aiding in algorithm understanding and analysis.
- Utilized C++.

SKILLS

Proficient Java, C++, JavaScript, Git, SQL, Java web technologies.
Familiar Python, HTML/CSS, Machine Learning, Front-end tools.

ACHIEVEMENTS

- Qualified to the ACPC programming contest 2023.
- Got the 56th place in ECPC 2023 out of 2400 teams and the 74th place out of 2000 teams in ECPC 2022.
- Ranked 4th on the 4th day of ECPC Qualification Round 2023.