Mohamad Chaker

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Education

Eastern Michigan University   Ypsilanti, MI
Bachelor of Science in Computer Science - GPA: 3.5   *Jan. 2018 – Dec. 2022*

Work Experience

Teaching Assistant - COSC 341 - Programming Languages - Dr. Li Zhang | *Eastern Michigan University*
- Provided extra support and targeted assistance to students who were struggling with the course material, helping them improve their understanding of programming languages.
- Graded quizzes, tests, labs, and assignments in a timely and fair manner, providing detailed feedback to students on their strengths and areas for improvement.
- Maintained accurate records of student grades and progress, and provided updates to the course instructor as necessary.

Projects

Vibe - Deputy Team Lead | *Android Studio - Java - FireBase/FireStore*
- Co-led a team of 6 developers and 1 designer in the development of an android chatting app similar to WhatsApp.
- Worked closely with the team lead to ensure project milestones were met, and effectively communicated with team members to ensure that the project was delivered on time.
- Developed and implemented project plans including timelines to ensure successful delivery of the project.
- Contributed to development of the app's features mainly the chat log and adding the friend functionality.
- Utilized Git version control system to manage codebase and ensure seamless collaboration between team members
- Conducted sprints twice a week to ensure that the team was on track to meet project milestones, and made adjustments to the project plan as necessary.

Clima | *Xcode - Swift - iOS*
- Developed a weather app that displays live weather data using the OpenWeatherMap API.
- Implemented dark mode feature to enhance user experience.
- Followed the Model-View-Controller (MVC) design pattern to organize the code structure of the app, ensuring clean and maintainable code.
- Utilized the Delegate design pattern to enable communication between view controllers and improve the modularity of the code.
- Integrated the Core Location framework to fetch the user's GPS data and provide local weather data in real-time.

BookStoreMC | *SQL*
- Designed and architected a database for a bookstore (Entity Attribute Sheet, Data Dictionary, ERD using Oracle Data Modeler)
- Implemented the architecture in Microsoft SQL Server which ran virtually on Docker.

Product Price Web Scraper | *Python3*
- Developed a Python3 application that scrapes an Amazon product listing page using Selenium Webdriver and BeautifulSoup4 (bs4) libraries.
- Implemented a feature that allows the user to specify a target price for the product, and automatically sends an email notification using smtplib when the product price drops below the specified target price.

TripAdvisor Clone | *HTML - CSS - JavaScript - NodeJS - MongoDB*
- built a full-stack app on a MongoDB/Node/Express stack, utilizing RESTful architecture with Bootstrap 4 CSS framework for styling.
- Implemented CRUD operations which are referenced within the database through various associations.
- Implemented user authorization and authentication for various routes using Passport.js and related submodules.

Technical Skills

Languages: Python3, Java, SQL, Swift, JavaScript, HTML/CSS, SML, Lisp
Frameworks: Node.js, Express, Django, Flask
Developer Tools: Git/Github/Gitlab, VS Code, Xcode, Android Studio, PyCharm, IntelliJ, Eclipse, AWS EC2