Sherif Elfiky

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SUMMARY

Pursuing a bachelors in Computer Engineering at UC San Diego, I have a strong background in data structures and algorithms. Proficient in Java, C++, and Python, I am enthusiastic to develop innovative software technologies.

EDUCATION

University of California San Diego **Expected Graduation March 2025**
B.S. Computer Engineering
- Relevant classes: Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering, Probabilistic Models, Machine Learning Algorithms, Discrete and Continuous Optimization

Monterey Peninsula College **June 2022**
A.S. Math, A.S. Physics, A.S. Computer Science

EXPERIENCE

Monterey Peninsula College **Monterey, Ca**
Tutor **Feb 2022 - July 2022**
- Administered 1 hour chemistry study sessions to improve scores on tests
- I was able to address students confusions on practice problems
- Students who attended my study sessions saw scores 10 percent greater than those who didn't

Pattullo Swim Center **Seaside, Ca**
Lifeguard/Water Safety Instructor **March 2017 - present**
- Warned swimmers of potential safety hazards
- Responded swiftly in life threatening situations
- Taught swimmers the basics of swimming and stroke techniques

PROJECTS

Pantry Pal Java, Github Actions, JUnit, JavaFX, Gradle, API(s): Whisper, MongoDB, ChatGPT
- App that uses available ingredients to create budget friendly recipes
- Runs on Windows and Mac
- Users can edit and delete saved recipes
- Whisper is used for voice to text translation
- MongoDB is used for storing saved recipes and user password and username
- ChatGPT is used for translating the available ingredients into a recipe

DoorDash ETA Python, Pandas, Scikit-Learn, Keras
- Utilizes 197k observations and 16 features to predict DoorDash wait times
- Compared multiples machine learning models such as linear regression, and neural networks to predict wait times
- Applied hyperparameter tuning to increase reliability of predictions

SKILLS & ACTIVITIES

- Programming Languages: Java, Python, C++, Javascript, HTML, CSS, Command Line
- Tools: Gradle, Bash, Github Actions
- Libraries/Frameworks: JavaFx, Junit, Pandas, NumPy, Scikit-Learn, Keras