MAZEN ALOTAIBI

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EDUCATION

Oregon State University *College of Elect. Eng. & Comp. Sci.*   Corvallis, OR (September, 2015 - June, 2019)

B.S. in Computer Science Applied in Artificial Intelligence, with Minor in Actuarial Science (GPA: 3.69/4.0).

> **Relevant Courses**: Objected-Oriented Programming, Data Structures, Analysis of Algorithms, Databases, Computer Architecture and Assembly Language, Digital Logic Design, Theory of Computation, Computer Networks, Operating Systems, Artificial Intelligence, Software Engineering, Usability Engineering, Parallel Programming, Graph Theory, Machine Learning and Data Mining, Intelligent Robots, Programming Language Fundamentals, Discrete Mathematics, Linear Algebra, Probability, Statistics for Engineers, Numerical Analysis, Mathematical Statistics, and Applied Stochastic Models.

EXPERIENCE

Computational Data Scientist   Corvallis, OR (October, 2019 - July, 2020)
Center for Genome Research and Bio-computing

Undergraduate Lead GPU Computational Researcher   Corvallis, OR (October, 2018 - June, 2019)
Center for Genome Research and Bio-computing

- Worked on **Tech Data AI Demo** which featured in the **IBMThink2019 Conference**.

- Contributed to the development of multiple Deep Learning related projects, including **Owl Sounds Classification**, **Plankton Classification**, and **Seeds Classification**.

- Assisted fellow undergraduates in understanding the concepts and implementation of machine learning and deep learning systems.

TECHNICAL SKILLS (**Proficient**, FAMILIAR)

Data Analysis: **NumPy**, **OpenCV**, **PyTorch**, **TensorFlow**, **scikit-learn**, and R.
Web Development: **JavaScript**, **jQuery**, **PHP**, **Node.js**, React.js, Flask, and NGINX.
Parallel Programming: CUDA, OpenGL, and OpenCL.
Programming Languages: **C**, **C++**, **Python**, **Bash**, MATLAB, and Java.
Tools: **Git**, **MySQL**, **NoSQL**, LaTeX, Docker, and ROS.
Languages: **Arabic (Native)** and **English (Professional Proficiency)**.

PROJECTS

Tech Data AI Demo   November, 2018 - Feburary, 2019
http://aidemo.cgrb.oregonstate.edu/

- Developed a website that races multiple hardware by running Deep Learning models developed by the CGRB lab. The project sponsored by **Tech Data**, **IBM**, **NVIDIA**, and **OpenPower**, and the project featured in **IBMThink2019 Conference**.

- Developed the website using **Bootstrap**, **JavaScript**, **Node.js**, **NGINX**, and **Bash**.

Pedestrian Tracking and Privacy Preservation *(Senior Design Project)*   October, 2018 - June, 2019
https://github.com/PavementPrometheus/Street-Watch

- Developed a computer vision system that detects pedestrians' faces to obfuscate them in real-time. Then applies a tracking system to understand pedestrian and traffic behavior to increase the safety of the traffic for **the City of Portland**.

- Developed the detection system using **OpenCV** and **PyTorch**, the traffic system using **OpenCV** and **Keras/TensorFlow**, and the web API and application using **Flask**, **Node.js**, and **MongoDB**.

Self-Driving RC Car   May, 2018 - June, 2018
https://github.com/OSUmlaiclub/SelfDrivingRCCar/tree/mazen

- Wrote a web app that streams a live-feed and a controller to control an RC Car's controller, **Raspberry Pi**, using **Node.js**, **JavaScript**, and **Python**.

- Built the structure of the intelligent agent and machine learning model.

EXTRACURRICULAR ACTIVITIES

IBMThink2019 *(Conference)*   San Francisco, CA (Feburary, 2019)
Presenter at Tech Data Booth

- Invited to **IBM Conference** by **Tech Data** to present Tech Data AI Demo to increase sales.

- Connected with **more than 100 potential clients** who are interested in using the demo to increase their sales in different regions, such as Brazil, the United Kingdom, and Japan.

OSU ML/AI Club   Corvallis, OR (May, 2017 - June, 2019)
Vice-President

- Responsibilities are to present the latest literature into AI, ML, DL, and CV areas biweekly, host learning sessions to solve Kaggle competitions for new learners.

- Worked on building a Self-Driving RC Car, Kaggle Competitions, and a Breast Cancer project with the group members.