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: 3.67/4.0).

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, Numerical Analysis, Mathematical Statistics, and Applied Stochastic Models.

Experience

Lead GPU Computational Researcher Corvallis, OR (November, 2018 - June, 2019)

Center for Genome Research and Biocomputing

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

Lead Photographer Dhahran, Saudi Arabia (Summer 2012)

Saudi Aramco Summer Program

- Managed a team of 6 photographers to document summer program events.
- Hosted and organized multiple teaching photography sessions for **more than 70 inspired photographers**.

Technical Skills

Data Analysis: NumPy, OpenCV, PyTorch (fast.ai), TensorFlow (Keras), scikit-learn, and R.
Web Development: JavaScript, jQuery, PHP, React.js, Node.js, Flask, and NGINX.
Parallel Programming: CUDA, OpenGL, and OpenCL.
Programming Languages: C, C++, Python, Bash, MATLAB, and Java.
Tools: Git, SQL, 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**.

Aces Up Game November, 2017 - December, 2017

https://github.com/madebymaze/AcesUp.game

- Wrote a web app with a team using **Java** *Ninja framework* for back-end, **JavaScript** for front-end, and **Heroku** and **GitHub** to host the web app.
- Won the **Best Web Application for Software Engineering I** *(CS-361)*.

Extracurricular Activities

DesertHacks *(Hackathon)* Phoenix, AZ (February, 2017)

Participant

- Worked with a team to build a web application that analyzes users' behavior from a list of previous behaviors based on *Markov Chain Methods*. The app was built using **Node.js** and **Flask** for back-end, **JavaScript** for front-end, **Python** for data analysis, and **SQL** for data saving and pulling.
- Hosted the web application on **Amazon Web-Services** (AWS).