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).

> **Core 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, Parallel Programming, Machine Learning and Data Mining, Intelligent Robots, Discrete Mathematics, Linear Algebra, Probability, Statistics, Numerical Analysis, and Mathematical Statistics.

EXPERIENCE

GPU Computational Researcher   Corvallis, OR (November, 2018 - Present)

Center for Genome Research and Biocomputing

- Built a website that races multiple **high-end GPUs** against each other while running multiple **cutting-edge deep learning models**.
- Built a fully dynamic website using **jQuery**, **Node.js**, **PHP**, and **BASH**.

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

Programming Languages(Experienced): C/C++, JavaScript, Python, PHP, Bash, and R.
Programming Languages: MATLAB, Java, and NGINX.
Libraries/Frameworks: NumPy, OpenCV, PyTorch, jQuery, and Node.js.
Tools: Git, SQL, NoSQL, Markdown, and LaTeX.
Languages: Arabic (Native), English (Professional Proficiency), and Japanese (Elementary Proficiency).

PROJECTS

Pedestrians Counting and Privacy Preservation *(Senior Design Project)*   October, 2018 - June, 2019

https://github.com/PavementPrometheus/Street-Watch

- Designing the entire pipeline of the system, building the computer vision models, communicating with Dr. Li and our technical advisor from Georgia Tech, Chanho Kim, and assigning tasks and responsibilities to my teammates.
- Worked on building a real-time object detection demo for our presentation to the City of Portland Representative and Dr. Fuxin Li, setting up CARLA, a simulation tool, and collecting more than 2,000 images from Portland's surveillance cameras as our test dataset for our demo.
- Collected the testing datasets using **Node.js** and the computer vision model will be built using **PyTorch** .

Image Captioning   July, 2018 - August, 2018

https://github.com/madebymaze/image-captioning

- Built a **Convolutions Neural Network-Recurrence Neural Network** (CNN-RNN) model to automatically generate captions from images using **NumPy**, **OpenCV**, and **PyTorch**.
- Trained the *CNN-RNN* model on **MS COCO dateset** that takes any image and automatically generate captions that describes the image with a probability score of likelihoods of accuracy.
- Trained the Encoder[*CNN*] for feature extracting and trained the Decoder[**Long Short-Term Memory** (LSTM) cells in *RNN*] to generate captions.

Image Classification   May, 2018

https://github.com/madebymaze/image-classification

- Wrote an **Multiple Layer Neural Networks** (MLP) that classifies images using **NumPy** and **PyTorch**.
- Trained the *MLP* model using **CIFAR-10 dataset**.
- Documented and reported the *MLP*'s accuracy and results using LaTeX.

EXTRACURRICULAR ACTIVITIES

OSU Machine Learning/A.I. Club   Corvallis, OR (May, 2017 - Present)

Active Member

- Worked with a team on *Self-Driving RC Car*.
- Worked with a team on a Kaggle competition in the area of health-care.