

MAZEN ALOTAIBI

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EDUCATION

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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 - February, 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**.

Image Captioning

July, 2018 - August, 2018

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

- Built a **Convolutional Neural Network-Recurrent Neural Network (CNN-RNN)** model to automatically generate captions from images using **NumPy**, **OpenCV**, and **PyTorch**.
- Trained the Encoder[*CNN*] for feature extracting and trained the Decoder[**Long Short-Term Memory (LSTM)** cells in *RNN*] to generate captions.

EXTRACURRICULAR ACTIVITIES

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.