

MAZEN ALOTAIBI

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EDUCATION

Oregon State University *College of Elect. Eng. & Comp. Sci.*

Corvallis, OR (September, 2020 - June, 2022)

M.S. in Artificial Intelligence (GPA: 3.55/4.0).

Relevant Courses: Machine Learning, Digital Image Processing, Convex Optimization, Natural Language Processing, and Matrix Analysis.

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: Artificial Intelligence, Parallel Programming, Graph Theory, Machine Learning and Data Mining, Intelligent Robots, Numerical Analysis, and Applied Stochastic Models.

LICENSES & CERTIFICATIONS

Deep Learning Specialization

January, 2020

coursera.org/account/accomplishments/specialization/certificate/MLDXX764WNQR

DeepLearning.AI TensorFlow Developer

August, 2019

coursera.org/account/accomplishments/specialization/certificate/HBYMWP2UBAFV

PUBLICATIONS

(January, 2021) **Discriminative Appearance Modeling with Multi-track Pooling for Real-time Multi-object Tracking**, arxiv.org/abs/2101.12159

Chanh Kim, Li Fuxin, **Mazen Alotaibi**, James M. Rehg

- Developed a pre-processing algorithm to convert Multi-Object Tracking datasets into a standard form and measure their visibility score.
- Improved the previous pipeline of the model using TensorFlow's low-level data API during training.

EXPERIENCE

Graduate Teaching Assistance

Corvallis, OR (September, 2020 - Present)

Oregon State University

- Taught two core-CS undergraduate courses: Introduction to Databases and Analysis of Algorithms.
- Developed course materials, mentored students, graded assignments, and held office hours in.

Computational Data Scientist

Corvallis, OR (October, 2019 - June, 2020)

Center for Genome Research and Bio-computing

- Developed an image labeling tool which helped increase performance **from 300 images/week to 3,000 images/week**. It was used to train object detection models to detect specific species in the wild.
- Labeled over **100k samples of birds sound data** using unsupervised machine learning models, developed a deep learning model to classify those samples, and deployed those models on NVIDIA Jetson Nano.

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** and sponsored by **Tech Data**, **IBM**, **NVIDIA**, and **OpenPower**.
- Contributed to the development of multiple Deep Learning related projects, including **Owl Sounds Classification**, **Plankton Classification**, and **Seeds Classification**.

TECHNICAL SKILLS (Proficient, FAMILIAR)

Data Analysis: NumPy, OpenCV, PyTorch, TensorFlow, scikit-learn, Pandas, and R.

Web Development: JavaScript, jQuery, PHP, Node.js, Flask, React.js, React Native, and NGINX.

Programming Languages: C, C++, Python, Bash, Julia, MATLAB, and Java.

PROJECTS

Pedestrian Tracking and Privacy Preservation (Senior Design Project)

October, 2018 - June, 2019

github.com/PavementPrometheus/Street-Watch

- Developed a computer vision system to detect pedestrians' faces to be obfuscated in real-time and apply an object tracking model, developed by [Chanh Kim](#), for the **City of Portland**.
- Developed the detection system using **OpenCV** and **PyTorch** on the traffic system using **OpenCV** and **TensorFlow**, and the web API and application using **Flask**, **Node.js**, and **MongoDB**.