

# 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: 3.69/4.0).

**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, Usability Engineering, Parallel Programming, Graph Theory, Machine Learning and Data Mining, Intelligent Robots, Discrete Mathematics, Linear Algebra, Probability, Statistics, Numerical Analysis, and Mathematical Statistics.

## EXPERIENCE

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**Lead GPU Computational Researcher**

Corvallis, OR (November, 2018 - Present)

*Center for Genome Research and Biocomputing*

- Responsibilities are to develop new pathways around AI, Machine Learning, and Deep Learning, and help other undergraduate in the AI, Machine Learning, and Deep Learning area.
- Worked on Tech Data AI Demo, was featured in IBM Conference, and multiple Deep Learning related projects, Owl Sounds Classification and Plankton Classification.

**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

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**Data Analysis:** NumPy, OpenCV, PyTorch, Keras/TensorFlow, scikit-learn, and R.

**Web Development:** JavaScript, jQuery, React.js, Flask, Node.js, NGINX.

**Programming Languages:** C/C++, Python, PHP, Bash, MATLAB, and Java.

**Tools:** Git, SQL, NoSQL, ROS, and LaTeX.

**Languages:** Arabic (Native), English (Professional Proficiency), and Japanese (Elementary Proficiency).

## PROJECTS

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**Tech Data AI Demo**

November, 2018 - February, 2019

<http://techdata.cgrb.oregonstate.edu/access/>

- Developed a website that races multiple hardware by running Deep Learning models developed by the CGRB lab, the project is sponsored by **Tech Data**, **IBM**, **NVIDIA**, and **OpenPower**, and the project was featured in IBMThink2019.
- Developed the website using **Bootstrap**, **JavaScript**, **Node.js**, **NGINX**, and **Bash**.

**Pedestrians Counting and Privacy Preservation (Senior Design Project)**

October, 2018 - June, 2019

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

- Develop a computer vision system that detect pedestrians' faces to obfuscate them in real-time, then apply a tracking system to understand the traffic 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

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**DesertHacks (Hackathon)**

Phoenix, AZ (February, 2017)

*Participant*

- Worked with a team to build a web application that analysis a user's behavior from a list of previous behaviors based on *Markov Chain Methods* 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)**.

**App Club OSU**

Corvallis, OR (Mar, 2016 - November, 2017)

*Active Member*

- Worked to build small projects using new tools with club members.
- Helped new members in explaining web development technologies and common practices in development.