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** .

Self-Driving RC Car May, 2018 - June, 2018

https://github.com/OSUmlaiclub/SelfDrivingRCCar/tree/maze

- Wrote a web app that streams a live-feed and a controller to control an RC Car's controller, **Raspberry Pi**, using **Node.js**, **JavaScript**, and **Python**.
- Researched and cleaned a set of datasets in a cloud-server to be used to train the machine learning model.
- Built the structure of the intelligent agent and machine learning model.

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.
- Built interactive animations and a tracking system using *JavaScript*.
- 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 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).