

# TAUFIQ DHANANI

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## EXPERIENCE

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### Sr. Analytics Engineer, Avitas a Baker Hughes Venture

Feb 2018 – Present

- Architected and implemented a cloud computer vision system to use aerial and stationary sensor data to detect and quantify methane emissions, oil leaks, and other inspection items for the O&G industry. Deployed on AWS using Docker and Kubernetes that is configurable by customer need and resources are spun up on demand for cost-savings and maximum scalability.
- Created efficient algorithms such as semantically fusing 2D aerial imagery detection with 3D assets in the real world using deep learning, multi-camera geometry, and Hungarian matching. Models were trained using state of the art algorithms using PyTorch, TensorFlow, and Darknet.
- Scrum Master for the machine learning team and the computer vision team as well as liaison between the application platform team and the analytics team.

### Teacher, CoderDojo

July 2013 – Dec 2013

Global movement of free coding clubs for young people.

- Awarded ‘Teacher of the Month’

## PROJECTS

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### Miss Direction

Aug 2016

A mapping engine that misguides you:

- Won award at AIHacks 2016
- Built by all women team of newbie programmers
- Using modern technologies such as GoogleMaps, Chrome Extension and Javascript

## EDUCATION

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### University of Oklahoma, BA Information Technology

2011 – 2014

- GPA 4.0
- DB1101 - Basic SQL
- CS2011 - Java Introduction

## PROJECTS

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- Web development: HTML, CSS, JavaScript
- Compression: Mpeg, MP4, GIF

## SKILLS

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- Web development: HTML, CSS, JavaScript
- Compression: Mpeg, MP4, GIF

## ADDITIONAL ROLES AND EXPERIENCES

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- Web development: HTML, CSS, JavaScript
- Compression: Mpeg, MP4, GIF