

Taufiq Dhanani

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Experience

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.

Digital Technology Leadership Program, General Electric July 2016 – Feb 2018

- Created predictive models using support vector machines in for time series data from industrial assets to reduce unplanned equipment downtime months in advance.
- Created a package to encrypt, transfer and store highly sensitive industrial data without foregoing efficiency that was benchmarked to be eleven times faster than the company's previous solution.

Software Engineer Intern, Visa June 2015 – Aug 2015

- Developed a full stack web application for internal atomization using Angular, Express, and DB2 for clearing and settlements.

Projects

Quanty Bot Aug 2021

A slack bot that is able to execute trades on over 15 accounts using APIs and Selenium automations. The bot can scrape FINRA/EDGAR data, read/update Google Sheets, query Reddit and suggest trades to queue.

Image Captioning and Dalle March 2021

Education

Georgia Institute of Technology, Master of Science in Computer Science 2017 – 2021

Computational Perception and Robotics Specialization, GPA: 3.8/4.0

Georgia Institute of Technology, Bachelor of Science in Computer Science 2012 – 2016

Info Internetworks and People Threads, GPA: 3.8/4.0

Faculty Honors and Dean's List

Skills

Programming: Python (Numpy, Pandas, PyTorch, OpenCV), Java (Spring Boot), SQL, ZSH/Bash

Technologies: AWS, Kubernetes, Docker, Unix, Postgres, Redis, RabbitMQ

Design: Final Cut Pro, Adobe CC (Photoshop, After Effects, Illustrator, Lightroom, Premier)

Additional Roles and Experiences

Camp CONNECT – Virtual December 2020 – July 2021

Group facilitator for a virtual camp that created a safe space for high school students to explore concepts relating to the theme of Climate Change and Environmental Action as well as express themselves and build bonds with their peers from 37 different countries.

AKES Winter Upgrade Program Teacher – Khorog, Tajikistan December 2018 – January 2019

Group facilitator for college students that engage in multiple service opportunities for the City of Los Angeles and participate in discussions that expose the multidimensionality of problems such as homelessness, food shortages, and refugee crises.

iCodeCamp.github.io Teacher – Chicago, Illinois December 2017 – January 2018

Created and delivered two six-week curriculums for high school girls and boys to learn about the awesomeness of computer science and software engineering.

Alternative Winter Break Facilitator – Los Angeles, California January 2017

Group facilitator for college students that engage in multiple service opportunities for the City of Los Angeles and participate in discussions that expose the multidimensionality of problems such as homelessness, food shortages, and refugee crises.