

Taufiq Dhanani

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EXPERIENCE

Avitas a Baker Hughes Venture – Sr. Analytics Engineer – Boston, Massachusetts **February 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.

General Electric – Digital Technology Leadership Program – San Ramon, California **July 2016 – February 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.

Visa – Software Engineer Intern – Foster City, California **June 2015 – August 2015**

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

EDUCATION

Georgia Institute of Technology – Online Campus **August 2017 – May 2021**

Master of Science in Computer Science: Computational Perception and Robotics Specialization **GPA: 3.8/4.0**

Georgia Institute of Technology – Atlanta, Georgia **August 2012 – May 2016**

Bachelor of Science in Computer Science: Information Internetwork and People Threads **GPA: 3.8/4.0**

Faculty Honors and Dean's List

Universitat Politècnica de Catalunya – Barcelona, Spain **May 2014 – August 2014**

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.