Antonio Ramón Trani

art3kr@virginia.edu ◆ 540-808-9101 ◆ github.com/art3kr
https://www.linkedin.com/in/antonio-r-trani/

EDUCATION

UNIVERSITY OF VIRGINIA

Class of 2017
Charlottesville, VA

B.S. in Mechanical Engineering   Dean's List 2015-2017
Coursework: Mechatronics ● Machine Design ● Signals

SKILLS

Languages	Python 3 (Pandas, NetworkX, Flask, SpaCy) ● R ● Javascript (JQuery, D3) ● HTML/CSS ● JSON ● Groovy ● Spin
Tools	Git ● JIRA ● VSCode ● Tableau ● Putty ● Sublime
Cloud/DB	Heroku ● AWS (S3) ● ElasticSearch ● SQL ● Docker ● Apache Nifi ● Kibana
Knowledge	Machine Learning ● Agile Development ● CI/CD ● Mechatronics
General Eng	Solidworks ● AutoCAD ● Matlab ● LTSpice ● LabView
Soft Skills	Bilingual Communication (Spanish and English) ● Mentorship ● Public Speaking

EXPERIENCE

SENIOR CONSULTANT - ADVANCED ANALYTICS

Aug 2021 - Present
San Diego, CA

Booz Allen Hamilton
- Engineered pipeline to parse construction plans, extract requirements, and cross reference with DoD building codes, identify gaps in 100+ plans (SpaCy)
- Generated graph and dashboard of requirements hierarchy, identifying gaps and most commonly utilized building codes in 100+ plans (Python, Dash)

CONSULTANT - DATA SCIENCE

Oct 2018 - July 2021
Washington, DC.

Deloitte, L.L.C.
- Designed Flask REST API to conduct NER analysis on request text (Flask, SpaCy)
- Led case support for 6 DoT and DHS financial fraud investigations utilizing machine learning of email data, ranging 30K-1M+ data points (Python, ElasticSearch, Nifi)
- Deployed network, NER, and translation processors for identifying social relationships of interest, and topics for investigation handling 2M+ data points (NetworkX, SpaCy)
- Automated ETL and graph analysis pipelines of email investigation web app for scaling from 6 to 20 investigations (Python, ElasticSearch, Nifi)
- Conducted regressions on open-source data in order to correlate adversary country interest in economic, diplomatic features (Pandas, Seaborn, SQLite)
- Scraped employment data to advise talent acquisition and retainment strategy for Air Force engineers (BeautifulSoup, Selenium, Pandas, R ggplot)

ENGINEERING ANALYST

July 2017 - Sept 2018
Patuxent River, MD

U.S. Naval Air Systems Command
- Automated data archiving, post-processing of sonar data (Python, PostgreSQL)
- Modelled military engagements for US Navy using Monte-Carlo simulations
- Programmed flight scheduling to create probability of detection over time graphs

TRANSPORTATION ENGINEERING INTERN

May 2015 - Aug 2015
Blacksburg, VA

Virginia Tech, Department of Civil & Environmental Engineering
- Visualized aircraft flight patterns and noise distribution (Matlab)
- Developed proposal for new runway scheme of O'Hare airport to mitigate noise
- Analyzed commercial flight paths and strategies for fuel savings (Matlab)

PROJECTS

DATA ANALYTICS COURSE INSTRUCTOR

April 2020 - Present

- Created and instructed courses in Python 101, Webscraping in Python, R 101, and SQLite 101 for Deloitte/BAH practitioners