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EDUCATION

Chapman University, Fowler School of Engineering, Orange, CA
Bachelor of Science, Data Analytics; GPA: 3.36   Feb 2021

Relevant Coursework: Introduction to GIS, Introduction to Remote Sensing, Data Structures and Algorithms, Statistical Modeling, Data Science, Introduction to Machine Learning, Applied Analytics, Database Management Systems, Computer Networks and Communication, CPSC I&II

HONORS AND GRANTS

MIT/Harvard Warrior Scholar Program (2017)
Thurgood Marshall Scholar Grant (2018-2021)
Chapman Grant (2018-2021)

RESEARCH EXPERIENCE

Chapman University, Crean College of Health and Behavioral Sciences; Health Sciences
Research Assistant, Aug 2019 – Feb 2021
Advisors: Dr. Jason Douglas
Mapped and analyzed data related to multiple projects revolved around crimes in vicinity of legal drug outlets, crimes in vicinity of parks, elementary school lunch programs, transportation hotspots, and COVID19 outbreaks. Analysis typically consisted of data exploration, geospatial processing, and statistical methods including ANOVA tests, t-tests, regressions, cohort analysis, and forecasting.

Chapman University, Argyros School of Business and Economics
Research Assistant, Aug 2020 – Feb 2021
Advisor: Dr. Jonathan Hersh
Analyzed indications of multi-dimensional poverty and sustainable development goal achievement for the Sahel region of Africa by designing and implementing an initial spatial database via cloud storage combining population and settlement estimates from remote sensing platforms and open street map data.

PRESENTATIONS, PUBLICATIONS, MENTIONS

The Student Symposium, Orange, CA, November 2020. "Geo-scraping South Los Angeles" (Poster).

Sera, J., Pena, E. C., Lounsbury, O., & Douglas, J. (2020, July). Examining spatiotemporal associations between legal drug outlets and crime and violence. In psychosomatic medicine (Vol. 82, No. 6, pp. A88-A88). (Abstract Publication)

Douglas, J, Subica, A. (2020, DEC) COVID-19 treatment resource disparities and social disadvantage in New York City. In Preventive Medicine (Vol 141) (Acknowledgement)

EXPERIENCE

Intelligence Analyst, United States Marine Corps
2012 – 2014
Updated the regional executive officer about changes in the operational area of 36 countries with a focus in maritime affairs and creating operational products and presentations to accurately describe changes within operating environments.

C4ISR Collections Manager, United States Marine Corps
2015 - 2017

Managed the use of organizational satellite-air-ground data collection resources by validating and processing customer collection requests within the Asia-PACOM region.

Software Engineer, Northrop Grumman
Summer 2019
Developed, modified, and maintained proprietary software in support of an open mission system architecture used to enable customers to configure a pilot instructor-student trainer environment by simulating air vehicle and ground station components.

Data Fellow, I-Team City of Los Angeles
Winter 2020
Developed an internal COVID19 dashboard for the mayor's office tracking cases, hospitalizations, deaths, and vaccination trends highlighting key timelines related to the Notify LA Program, the relationship between communities and the Healthy Place Index, and differences between non-age-adjusted and age adjusted metrics.

Data Scientist, LA County Department of Public Health
Apr 2021 – Present
Designed and implemented an ETL Pipeline to migrate Los Angeles County COVID19 vaccination records from the California Immunization Registry to internal databases for further data validation, analysis, and summary within reports and public facing dashboards. Additionally developed, tested, and maintained the LA County Vaccine dashboard.

CERTIFICATIONS

HIPAA
NGA Geospatial Intelligence Requirements Management
NGA Intermediate Intelligence Writing
USPACOM Critical Thinking and Structured Analytical Techniques
USPACOM Intelligence, Surveillance, Reconnaissance & Collection Management
DIA Intro to Business Intelligence
DOD Intelligence and Effective Writing Certification
Joint Targeting Collateral Damage Estimation
Lean Six Sigma Yellow Belt
USMC Financial Management Certification

TECHNICAL SKILLS

Python, R, SQL, Bash, HTML, CSS, JavaScript, Java, C++, C#, ArcGIS Suite, Google Earth Engine, Tableau, Asana, QGIS, Git, Trello, Asana, Microsoft Office, Microsoft Visual Studio, Atlassian Development Toolset