CHARLES F. INGULLI III

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WORK EXPERIENCE

Total Systems Technologies Corporation *Arlington, VA*

· A government contracting firm that delivers professional services to clients and partners in areas such as program management, cybersecurity, and analytics.

Case Study Analyst February 2021 - Current

· Enhanced data analysis efficiency utilizing Power Query by centralizing data, automating metrics, and improving graphics, reducing over half of the time spent on updated information delivery.

· Led the creation of quarterly risk assessment presentations, through data aggregation and visualization, showcasing effective communication of complex analyses to stakeholders for easier decision-making.

· Collaborated with independent validation and verification team through working examples of current methodology, effectively utilizing written and verbal skills to explain existing processes while highlighting areas for improvement that became accepted recommendations.

REFEREED TALKS

Symposium on Data Science and Statistics 2024: "An Analysis of Low Back Pain with Associated Risk Factors Through the Implementation of Multi-State Markov Models"

RELEVANT KNOWLEDGE

Programming Languages:	R, Python, SQL
General Tools:	Excel (Microsoft Office Specialist), Power Query, LaTeX, Git

SELECTED PROJECTS

Analysis of Low Back Pain Using Multi-State Markov Models

· Conducted extensive analysis through data cleaning, visualizations, and model building to produce meaningful results in the assessment of low back pain risk for individuals in manufacturing industries.

· Interpreted estimates from Multi-State Models through transition probabilities that enhance the understanding of low back pain progression and further the research goals of collaborators.

wlsd: Wrangling Longitudinal Survival Data

· Developed coding functions through an R package that transform data sets into different workable formats for survival analysis reducing data preparation time by automating processes.

· Aligned package development with requirements for formal submission such as following proper coding practices, including relevant documentation files, writing tutorial vignettes, creating unit tests, and supplying data sets.

EDUCATION

Master of Science - Statistics December 2020
Graduate Certificate - Data Science
American University, Washington, DC

Bachelor of Science - Mathematics and Economics May 2018
American University, Washington, DC