Null S. Modulo

Santa Ana, CA • null.modulo@gmail.com • 562-555-5555 • linkedin.com/in/nullspacesmodulo

SUMMARY

Innovative mathematician combining research, work experience, and education in applied data analytics, scientific computing, and quantum networking techniques. Expert in extracting and communicating technical ideas and business impact to a nontechnical or executive audience. Seeking a theoretical quantum information analyst/scientist role in an R&D function.

Technical & Professional Skills: Python • C++ • Perl • SQL • SAS • Approximation Algorithm Development • Machine Learning • Numerical Analysis • Scientific Computing Techniques • Professional Scrum Developer Certification • Technical Presentations • Technical Reports • Technical Proposals

EDUCATION

Ph.D. in Applied Mathematics, University of California, Riverside (UCR) December 2023
Thesis: Quantum techniques for reaction networks
B.S. in Mathematics, Georgia Institute of Technology (Georgia Tech) May 2016
Minor, Data Science

Combined Relevant Coursework: Numerical Analysis I & II, Computational Data Analysis, Design and Analysis of Algorithms, Scientific Computing, Mathematical Physics, Quantum Theory and Analysis

PROFESSIONAL EXPERIENCE

Graduate Student Researcher, Mathematical Physics, UCR September 2018 – Present

- Applying the concept of chemical reaction networks to Petri nets for computer science.
- Evaluating how stochastic time evolution for a reaction network is related to the rate equation.
- Researching how quantum entities can be described by independent Poisson distributions.

Data Scientist, Kia America, Irvine, CA June 2016 – September 2018

- Analyzed large datasets and built classification models to discover usage trends and patterns.
- Assisted IT system developers and built REST APIs for data and analysis result consumption.
- Coordinated with various functional teams for feature engineering and presented information to management using Python and in-house built dashboards.

Machine Learning Student Research Assistant, Georgia Tech August 2014 – May 2016
Electronic Warfare Modeling and Analysis Division (EWMAD), Electro-Optical Systems Laboratory

- Conducted automated machine learning research to achieve EWMAD objectives.
- Curated data, ran simulations, and developed algorithms for sensitive government applications.

SELECTED HONORS AND AWARDS

Award in the Mathematical Contest in Modeling and Interdisciplinary Contest in Modeling, SIAM, 2019
Barry Goldwater National Math and Science Scholarship, Georgia Tech, 2012

PROFESSIONAL ORGANIZATIONS

Society for Industrial and Applied Mathematics (SIAM) • The Society of Physics Students, UCR