HILARY PRESENT

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY   **Atlanta, GA**
M.S. in Analytics, Computational Data Science Track   *Aug 2023 – Aug 2024*
- *Coursework and Extracurriculars:* Data and Visual Analytics, Statistical Modeling and Machine Learning, Information Security, Computer Vision, Simulation, Regression, Business Analytics, Energy Club, Business Analytics Club

UNIVERSITY OF VIRGINIA   **Charlottesville, VA**
Dual B.A. in Cognitive Science and Media Studies, Computer Science Track   *Aug 2017 – May 2021*
- On the Board of Directors for Wild Virginia, a non-profit focused on protecting Virginia's wildlife and forested land
- Paid for college expenses by bartending at local restaurant all 4 years. Promoted to manager 2 years ahead of schedule

SKILLS

Languages: Python, R, JavaScript, HTML/CSS, C
Data & Visualization: Pandas, NumPy, Tableau, D3.js
Cloud Computing: Microsoft Azure, AWS, GCP

Machine Learning & Deep Learning Frameworks:
PyTorch, TensorFlow, Keras
Database & Data Manipulation: SQL, Hadoop, Spark

RESEARCH & PROJECTS

RAMPRASAD RESEARCH GROUP   **Atlanta, GA**
Dedicated to developing and deploying computation and ML techniques to accelerate the discovery of novel materials
Research Assistant   *Oct 2023 – Present*
- Extracted experimental data on polymer and solvent interactions, incorporating key attributes such as chemical fingerprints, concentration levels, and reaction temperatures
- Built neural networks using PyTorch to develop and test predictive models for polymer/solvent mixture solubility on 16,000+ combinations of concentrations and temperatures

ATLytiCS DATA FOR HOPE™ COMPETITION   **Atlanta, GA**
Result: Team Won Second Place; Received Prize of $2000   *Aug 2023 – Sep 2023*
- Utilized inductive reasoning and hypothesis generation to investigate year-over-year discrepancies in Atlanta's homeless population and the corresponding resource allocation
- Synthesized actionable insights into comprehensive visualizations using NumPY, Tableau, and Pandas

EXPERIENCE

MATMERIZE   **Atlanta, GA**
Pioneering company accelerating materials design by integrating polymer expertise with advanced data science techniques
Business Strategy Analyst; Selected for Georgia Research Alliance Student Scholar program   *Jan 2024 – May 2024*
- Leading creation of comprehensive client acquisition strategy through lead generation and market expansion research
- Refining advanced features for data correlation analysis and leading polyBERT model integration on Matmerize platform

HERCTECH   **Wilmington, DE**
AI-focused Fintech transforming investment management through real-time replication of mutual funds using public information
Data Analyst   *Dec 2020 – Present*
- Sourced over 20 years of time-series data from Morningstar's database of 60,000+ simulated investment portfolios
- Applied feature engineering and data sampling in Excel to build tailored datasets for advanced modeling and predictions
- Incorporated tear sheets for analysis and visualization of 500+ million data points for firm's flagship 2023 White Paper

EASY DAY SPORTS   **San Diego, CA**
Marketing Coordinator and Analyst   *Sep 2022 – Jul 2023*
- Collaborated with NFL franchises and public companies to orchestrate premier endurance events with 2,500+ participants
- Implemented A/B Testing to optimize demographic targeting, achieving a 125% increase in average event attendance

ILINX LLC   **Remote**
Founder and CEO   *Apr 2020 – Sep 2022*
- Dissected TikTok's algorithm to optimize content for visibility and engagement resulting in the successful development and monetization of a 150,000+ follower, $10,000 ARR social media presence