RYAN STEED

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EDUCATION

George Washington University   August 2017 - May 2020
B.S. Computational Economics   GPA: 3.98
Minor in Philosophy

RESEARCH EXPERIENCE

George Washington University   September 2018 - Present
Research Assistant, Department of Computer Science

- Research fairness, accountability, and transparency in machine learning with Dr. Aylin Caliskan.

- Motivated, designed, and conducted experiments to detect bias in state-of-the-art face recognition.

Duke University   May 2017 - January 2018
Research Assistant & Lead Modeler, Social Science Research Institute

- Under Max Erdemandi, oversaw model design and computational development of game-theory-based strategic decision-making software for security analysts in Python on top of Flask.

- Coordinated the development of social network analysis algorithms & Monte Carlo models for link prediction; presented work to intelligence community members the Pentagon.

- Presented neural network sentence classification model at ISA academic conference.

University of North Carolina at Chapel Hill   August 2016 - May 2017
Research Affiliate, Department of Political Science

- Collaborated with Dr. Timothy McKeown to analyze and compile foreign policy web archives.

- Constructed Python web crawler to collect and store digital documents from various sources.

PROFESSIONAL EXPERIENCE

Capital One   May 2019 - Present
Data Engineer

GW Innovation Center   September 2017 - Present
Virtual Jane Project Manager & Technology Fellow

- Co-founded GWU's first maker space for entrepreneurs and student innovation.

- Product owner & scrum master for Virtual Jane project, a mobile virtual reality educational app for the Jane Goodall Institute modeled in Maya and developed in Unity.

- Recruit, organize, and fundraise for a team of student animators, developers, and content creators.

- Hosted Dr. Jane Goodall at GWU for a motion capture scan and creative pitch.

Magic Number   May 2018 - August 2018
Machine Learning Specialist

- Researched, designed and tested machine learning classification and clustering models to categorize patent documents into packaged sectors for clients.

- Implemented virtual machine microservice stack to schedule machine learning training and execution, manage model hyperparameters, and serve machine learning predictions.

PUBLICATIONS

- Erdemandi, M., Augustine, R., Zhao, L., **Steed, R.,** "Expansion of automated event coding for better international security analysis," in *International Studies Association South*, 2017.

- Rivera, W. A., Rogers, A., **Steed, R.,** "The practice and promise of open source intelligence and computational security studies," in *International Studies Association South*, 2017.

- **Steed, R.,** "Evolution of innovation in patent citation networks," Poster presented at GW Research Days, 2019.

- **Steed, R.,** "AI is Heideggerian enough, but can it be authentic?" Manuscript, 2019.

- **Steed, R.,** "Effect of religious diversity on growth," Manuscript, 2018.

- **Steed, R.,** Rivera, W. A., "The derivative relational attribute graph model for link prediction," Manuscript, 2017.

- **Steed, R.,** "From plato to popper: Platonic forms in modern science and quantum theory," Manuscript, 2017.

FELLOWSHIPS & GRANTS

Social Good Fellowship   September 2017 - Present
GW Innovation Center

Data MASTER Fellowship   May 2017 - May 2019
GW Mathematics And Statistics Training, Education, and Research Program

Sigelman Undergraduate Research Enhancement Award   October 2018
George Washington University

HONORS & AWARDS

- Dean's List, George Washington University, *2017-18 & 2018-19*

- Presidential Scholarship with Honors, George Washington University, *May 2017 - Present*

- Outstanding Academic Achievement Award, George Washington University, *May 2019*

- 2nd Prize, Politics & Economics, GW Research Days Poster Competition, *April 2019*

- Strasser Writing Prize, GW Honors Program, *January 2018*

- National Merit Scholarship, *May 2017*

PRESENTATIONS

- Machine Learning Document Classification, GW ACM, *November 2018*

- "The Practice and Promise of Open Source Intelligence and Computational Security Studies," *International Studies Association South*, Orlando, 2017.