

SUSANNA COX

EXECUTIVE SUMMARY

AIML, policy analysis, dataset design & engineering. Former lobbyist & ethical hacker. Multiple patents written. Startup veteran.

Thoughtful technical leadership at the intersections of security, artificial intelligence, & vulnerable populations.



CONTACT

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SENIOR INTELLIGENCE ANALYST & ARTIFICIAL INTELLIGENCE ARCHITECT



MACHINE LEARNING / ARTIFICIAL INTELLIGENCE

HEAD OF MACHINE LEARNING

STEALTH STARTUP

Architected ethical & secure machine learning data collection and backend while in charge of product creation & research design at a bleeding-edge tech startup focused on revolutionizing digital education. Designed data collection within user interfaces across multiple products aimed at varying user groups. Implemented ethical data standards from UI to pipeline.

Six patents written in 1st year, including four technical & two design.

Led a working team of graduate students in a successful joint research project with the METALS program at Carnegie Mellon University.

Directed engineering teams in Ukraine, Vietnam, and the US in the technical implementation of ML models and engines.

PRINCIPAL ENGINEER

INDIGENOUS ENGINEERING

Innovated multiple research projects leveraging machine learning, natural language processing & stakeholder networks into data insight with scalable pipelines scraping social media platforms, creating custom unstructured datasets and corpora, & reporting results. Demonstrated wide application for population research.



SECURITY

SENIOR SECURITY ENGINEER

UNDISCLOSED

Leveraged knowledge of law enforcement, social media, financial, civil, kinetic & network security systems to evade a multi-agency manhunt for over a year, while working full time as an AIML engineer, leading research projects, and maintaining an active 10k-follower social media account.

SENIOR SECURITY ENGINEER

UNDISCLOSED

Led multinational company penetration testing by organizing large scale tests including kinetic, physical, and network security. Mass social engineering and social media manipulation with footprinting and research catalogues.



POLICY

SENIOR POLICY ANALYST

CRITICAL ALLIANCE

Directed research & data acquisition and initialized Machine Learning for newly founded think tank. Created custom industry-actionable datasets and AIML modeling systems for policy areas ranging from agriculture to molecular physics to cybersecurity.

DIRECT LEGISLATIVE ACTION OPERATIVE

UNDISCLOSED

Staffed election & policy influence operations throughout the southern US and Washington DC. Legislator/government relations, organizing/training operatives, media ops. Coordinated legislative action. Led briefings to rapidly train civilian lobbyists in focused capitol hill efforts. Led press conferences & media events, wrote speeches, produced media packets and created press releases.



TECH STACK

Python
C/C++
TensorFlow
Docker
Keras
Pytorch
Seaborn
Matplotlib
Pandas
Numpy
Linux (Debian)
Natural Language
Toolkit (NLTK)
Gensim
Scikit-learn
Anaconda/Jupyter
Bash & Command
Line Interface (CLI)
SQL
++



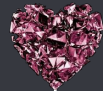
LANGUAGES

Russian
German
French
Spanish
Hebrew



ORGANIZATIONS

American Indian
Science and
Engineering Society
(AISES)
Society of Women
Engineers (SWE)
Phi Sigma Rho
Engineering Sorority
IEEE Computer
Society
Natives in Tech (NiT)



POLICY HONORS

Oxford Scholar
State Champion, American Legion Oratory Contest
National Finalist, American Legion Oratory Contest
Girls State
Girls Nation Senator, Served As Attorney General
State Cross Examination (CX) Policy Debate Champion
YMCA Youth Assembly
Teenpact National Congress



EDUCATION

COMPUTER SCIENCE &
MODERN LANGUAGES

GEORGIA INSTITUTE
OF TECHNOLOGY

PUBLIC SPEAKING,
GRASSROOTS ORGANIZING
& MEDIA RELATIONS

THE LEADERSHIP INSTITUTE,
WASHINGTON DC



SELECT WRITINGS

[Securing AIML Systems in the Age of Information Warfare](#)

[A New Monroe Doctrine for the Law of Armed Conflict \(LOAC\) and the Use of Force in Cyberspace: Colonial Interests, US & Russian Expansionism, and The United States Doctrine](#)

[Pre-Soviet Trajectories for Digital Warfare: Situating the Early 2022 Ukraine Cyberattacks Within Russian-Leninist Information Warfare Analysis](#)

[Not Your Mascot: Opinions Vs Data](#)

[What Does it Mean to be Cherokee Online?](#)