



Cybersecurity is Like Ice Cream. There Are a Whole Lot of Flavors.

SANS Cyber Camp

Chazz Scott

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Personal Biography

Charles “Chazz” Scott

Graduate of Hampton University holding B.S. in Computer Science and M.S. in Cybersecurity

Published numerous papers Scientific Research Publishing (SCIRP), Journal of Computer Science & Communications, and The Institute of Electrical and Electronics Engineers (IEEE)

- ▶ Web SSO’s and the importance of undergraduate Software Security Development

My Cybersecurity experiences:

- ▶ National Institute of Standards of Technology (NIST), Cybersecurity Division – Role Based Access Control (RBAC)
- ▶ Accenture
- ▶ Defense Intelligence Agency (DIA)
- ▶ Defense Information Systems Agency (DISA)
- ▶ National Nuclear Security Administration's Lawrence Livermore National Laboratory (LLNL) – Network Simulation with High Performance Computing (HPC’s)
- ▶ Currently: Incident Response Team Lead for the National Geospatial-Intelligence Agency

The opinions I express here are my own and do not necessarily reflect the views of
NGA, the DoD, or the US Government

Cyber is Everywhere! (There are Hundreds of Flavors)

- ▶ Home alarm systems
- ▶ Coffee Makers
- ▶ Robo Vacuums
- ▶ Electric Cars
- ▶ Doorbells
- ▶ Wireless lightbulbs
- ▶ Smart Homes
- ▶ Wifi Toothbrushes
- ▶ Space satellites and Geospatial Intelligence
- ▶ Healthcare (ex: Pacemaker)
- ▶ Machine Learning/Artificial Intelligence (AI)
- ▶ Quantum computing

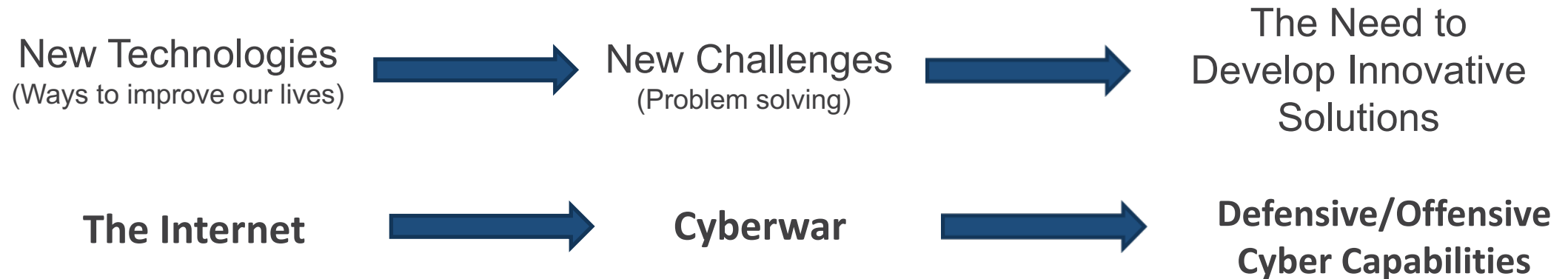
Virtually every facet of our lives will need some sort of cybersecurity component.

We need smart people like you to help solve tough problems!

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Trust me, Cyber Has a Place For You

There will be **3.5 million** unfilled **cybersecurity jobs** globally by **2021**, up from one **million positions** in 2014.



There is a growing need for **new** talent to solve **new** cybersecurity related problems.

And there are so many different **flavors** to help solve these challenges.

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Current Job: Incident Response @ NGA (Security of Geospatial Intelligence/Satellites)

- The **National Geospatial-Intelligence Agency (NGA)** delivers world-class geospatial intelligence that provides a decisive advantage to policymakers, military service members, intelligence professionals and first responders.
 - Anyone who sails a U.S. ship, flies a U.S. aircraft, makes national policy decisions, fights wars, locates targets, responds to natural disasters, or even navigates with a cellphone relies on NGA
- Incident Response Team Lead in our Cybersecurity Operations Cell (CSOC)
 - Respond to cyber incidents, events, and attacks that threaten our GEOINT infrastructure
 - Contain and eradicate cyberattacks
 - CSWO, Incident Response, Cyber Threat Intelligence, Hunt, and Advance Analytics (AA), Audits

Our overall goal is to secure Geospatial Intelligence and our Satellites

Many different flavors of Cyber to support NGA's mission.



What's NGA?

https://www.youtube.com/watch?v=Elmzy_NKexU

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Cyber In Other Places

- ▶ Lawrence Livermore National Lab (LLNL)
 - Developing python scripts with Particle Physicist for network simulation to develop countermeasures
- ▶ DISA – Setting up and engineering Firewalls in Data Centers
- ▶ NIST – Developing standards and scientific research



Photo via [LLNL.gov](https://www.llnl.gov)



Photo via [LLNL.gov](https://www.llnl.gov)

Not Sure What Cyber Career is Best For You?

- The Internet is your friend!
- The Cybersecurity & Infrastructure Security Agency (CISA) Cyber Career Pathways Tool
 - Help you identify, build, and navigate a potential cyber career
 - Increase your knowledge, skills, and abilities
 - Understand various Cyber work roles and their relationship to one another
- Gain experience through people that you know and attending events like these!
- While in College: Internships! This is your chance to “try it out.”
- Know what you don’t enjoy so you can choose what you want to do!

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What Flavor Is For You?

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[@Mr_Caviar](https://www.linkedin.com/in/charlesscott15/)

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