Analyst/Solutions Architect
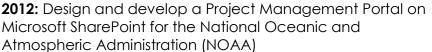# Matthew Wilchek

- ✓ Current Federal Employee (GS-11)
- ✓ Active Secret Clearance
- ✓ Polygraph tested October 2014 - no deception detected by USSS

CONTACT

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📞 860-944-8795

LANGUAGES

Java

Python/R

HTML/CSS

SKILLS

ArcGIS

Data Science

Data Architecture Design

UX Design

Microsoft SharePoint Designer

Adobe Photoshop/Captivate

HOBBIES

Mobile Technology Development
Computer Gaming
Penetration Testing
Traveling

PERSONAL PROFILE

I am a well-rounded solutions architect with 5+ years of experience in data analysis and innovation design. I always continue to learn technical and non-technical skills such as programming, GIS mapping, international relations and project management. I consider myself to be highly proactive, looked as a technical expert, and comfortable leading projects for a large group of stakeholders.

ACHIEVEMENTS

2012: Design and develop a Project Management Portal on Microsoft SharePoint for the National Oceanic and Atmospheric Administration (NOAA)
2013: Assist in a big data assessment of financial intelligence and open-source intelligence for inside-trading investigations for the Securities Exchange Commission (SEC)
2014: Contribute to the design and technical development for the re-branding of the Financial Crimes Enforcement Network (FinCEN) on their public website
2016: Lead the development and design of Geo-spatial Intelligence (GIS) mapping products for international agricultural trade analysis for U.S. Department of Agriculture's Foreign Ag Service

EDUCATION/PROFESSIONAL TRAINING

2008-2012: George Mason University Bachelor of Arts in Global Affairs (graduated with Cum Laude Honors)
2014-2017: Northern Virginia Community College Associates in Computer Science
2016: Project Management Professional (PMP) Certification training
2016: Geo-spatial Intelligence development and analysis training by the National Geo-Spatial Intelligence Agency (NGA) and Esri
2017: George Washington University Master of Science in Data Science (current graduate student)

11/2016 – Present: Geographer (GS-11)
U.S. Census Bureau – Geography Division
- Support a research and development branch with updating and innovating Big Data, while improving data visualization methodologies
- Develop programs in Java and Python to ingest and analyze large geo-spatial data sets from Oracle databases
- Perform exploratory spatial data analysis (ESDA) using R statistical programming, SQL, and ETL
- Assist the Hidden Unit Task Force with the identification of hidden housing units for 2020 enumeration by utilizing near-infrared (NIR) imagery and Light Detection and Ranging (LiDAR) imagery, and ArcGIS Python Arcpy scripting
- Query and update the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) database and the Geographic Acquis-based Topological Real-time Editing System (GATRES)

10/2015-11/2016: International Program Specialist (GS-7)
USDA Foreign Agriculture Service (FAS)
- Act as the primary technology liaison/business analyst for the Disaster Assistance division's Office of the Director
- Streamline and innovate metadata standards, templates, forms, agency data calls, and various processes using a variety of technology such as Microsoft Access, InfoPath, SharePoint Surveys
- Design and execute analytical reports from various databases of global agricultural data to be integrated to a Geographic Information System (GIS), including big data sets, using various programming languages such as Java, JavaScript, HTML, and QML
- Develop and co-author GIS Story Maps used for executive management and Congress
- Assist in a streamlined data integration of the USDA FAS's Grantor management system and FAS's SharePoint workspace to allow the flexibility of big data tracking, analytics, and enterprise searching

02/2015-10/2015: Competitive Intelligence Analyst ($60k)
Northrop Grumman – Air and Missile Defense
- Supported the international business development team in providing competitive and market intelligence that influenced strategies to support business winning goals of the Air and Missile Defense division
- Data collected, analyzed, and assessed multiple strategic Missile Defense technologies using Open Source Intelligence trade-crafts from numerous companies including cyber security tools
- Attended multiple symposiums and workshops to collect competitive Human Intelligence for strategic captures and lead counter-intelligence initiatives

02/2014-02/2015: Web Developer (Contr.) ($55k)
Financial Crimes Enforcement Network – Technology Division

- Design and implement content updates such as guidance and advisories to financial institutions on FinCEN.gov, 314a Financial Regulators web site, and the FinCEN Registered User Portal used by all domestic law enforcement agencies
- Contribute to the design and technical development for the re-branding of the Financial Crimes Enforcement Network (FinCEN) logo
- Acted as a technology/business liaison to coordinate BSA data and system updates with inter-agency partners such as the Financial Action Task Force (FATF), Bureau of Fiscal Services, Main Treasury Department, and others

05/2012-02/2014: Financial Crimes Support Analyst ($50k)
Northrop Grumman – Federal Defense Technology Division

- Assist Senior Solution Architects with the development of open-source intelligence (OSINT) analytical software by performing operational research, planning analysis, and financial intelligence (FININT) analysis such as predictive analytics
- Lead the design and development of a Project Management Portal that followed a standardized project management framework based from the Project Management Institute (PMI) on Microsoft SharePoint for the National Oceanic and Atmospheric Administration (NOAA)
- Support executive level management with financial intelligence subject-matter expertise in BSA related to future business opportunities in IRS-CI, CFTC, SEC, FDIC, and others

05/2011-05/2012: Intelligence Analyst Intern (Unpaid)
Financial Crimes Enforcement Network – Intelligence Division

- Researched, analyzed, collected and produced financial intelligence data and reports using various data collecting systems such as TECS, Lexis-Nexus, and SAS
- Studied trends and patterns, assisted in identifying intelligence gaps on global financial transactions activities in support of the prevention of financial crimes with senior intelligence analysts; including krypto-currency trends such as bitcoin
- Wrote over 20 investigative reports on foreign politically exposed people suspected of money laundering or terrorist financing by analyzing BSA data