# NICK UHORCHAK

PhD Student at the University Of Arkansas, Department of Industrial Engineering. Army ORSA, having served in various roles from budget analyst, to data scientist, at Joint and Army level commands.

## 🎓 EDUCATION

**2026**
**|**
**2023**

### Ph.D., Industrial Engineering

Fayetteville, Arkansas      📍 University of Arkansas

- PhD student, currently researching pediatric vaccine tender scheudling, utilizing mixed integer linear programming, and game theory.
- Inducted into Alpha Pi Mu, the Industrial Engineering Honor Society.

**2018**
**|**
**2016**

### M.S., Operations Research

Air Force Instituite of Technology      📍 Wright Patterson AFB, OH

- Thesis: An Analysis of Incomplete SOCOM Selection Data (Distribution Statement D). Thesis focused on predictive modeling for Air Force Special Operations Command selection and training pipeline.
- Inducted into Omega Rho, Instituite for Operations Research and Management Science Honor Society
- Applied Statistics Track Data Science Certificate

**2008**
**|**
**2004**

### B.S., Information Technology

United States Military Academy      📍 West Point, NY

- Selected as one of three MVPs during execution of the Cyber Defense Exercise, for performance as team leader in the larger group project

## 💻 INDUSTRY EXPERIENCE

**2023**
**|**
**2021**

### Data Scientist

Network Enterprise Technology Command (NETCOM)      📍 Fort Huachuca, AZ

- Data Scientist in Network Operations Analysis Division, Data Science Directorate.
- Responsible for data aggregation, cleaning, and transformation for endpoint discovery, management, and analysis to support G3.
- Resposible for the generation and start of an asset inventory managment tool, to catalogue US Army endpoints on the DODIN-A.
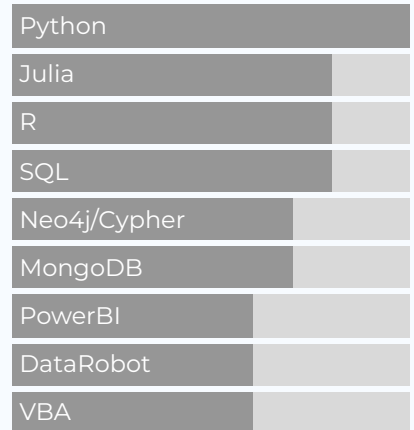
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View this CV online with links at
https://nuhorchak.github.io./

## CONTACT

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- 🐦 nuhorchak
- 🐙 github.com/nuhorchak/
- 🔗 nuhorchak.github.io/
- in linkedin.com/in/nicholas-uhorchak/

## LANGUAGE SKILLS

| Skill |
|---|
| Python |
| Julia |
| R |
| SQL |
| Neo4j/Cypher |
| MongoDB |
| PowerBI |
| DataRobot |
| VBA |

**2021 — 2018**

### ORSA / Data Scientist
US Special Operations Command (SOCOM)    📍 MacDill AFB, FL

- Data Science (R1J) qualified Operations Research Systems Analyst, serving as an data scientist in a combatant command headquarters.
- Responsible for multiple data science efforts, including predictive, prescriptive and statistical modeling
- Rated top junior data scientist in the organization, and commended for performance beyond current pay grade

## 📖 SELECTED PUBLICATIONS, POSTERS, AND TALKS

**2024**

### Pediatric Vaccine Tender Scheduling in Low and Middle Income Countries
https://arxiv.org/abs/2403.07755    📍 IISE Conference Proceedings

**2024**

### A Stochastic Optimization Model for Scheduling Tenders for Pediatric Vaccines in Low- and Low-Middle-Income Countries
📍 Planned

Academic publications from my research.

**2024**

### Pediatric Vaccine Tender Scheduling in Low and Middle Income Countries
📍 Arkansas Bioinformatis Consortium

**2024**

### Pediatric Vaccine Tender Scheduling in Low and Middle Income Countries
📍 IISE Annual Conference

**2024**

### A Stochastic Optimization Model for Scheduling Tenders for Pediatric Vaccines in Low- and Low-Middle-Income Countries
📍 INFORMS Annual Conference

## 🏆 HONORS RECEIVED

**2024**

### Alpha Pi Mu Honor Society
Industrial Engineering    📍 University of Arkansas

- Inducted into Alpha Pi Mu, for distinguished graduate achievement.

Academic achievements

**2019**

### R1J (Data Science) PDSI
US Army    📍 US Army

- Awarded the Personnel Development Skill Identifier (PDSI) R1J for Data Science

**2018**

### Omega Rho Honor Society
INFORMS    📍 AFIT

- Inducted into Omega Rho Honor Society for academic excellence through GPA greater than 3.75