Phuoc H. Nguyen

Data Scientist & Analytics Engineer
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Summary

Results-driven data scientist with 13+ years' experience in machine learning, data engineering, and analytics leadership. Proven record building scalable solutions in AWS, Spark, and Python. TS/SCI cleared. Published researcher; member, Mu Sigma Rho.

Skills

Languages: Python, R, SQL, JavaScript
Cloud/Platforms: AWS (EC2, S3, Lambda, Athena), Spark, Hive, Presto, EMR, Docker, Kubernetes
Tools: TensorFlow, PyTorch, scikit-learn, Airflow, Tableau, ReactJS, Git
Expertise: Data Engineering, MLOps, Predictive Analytics, NLP, ETL Automation

Experience

Lead Data Scientist / Operations Research Analyst *Jul 2024 – Present*
DoD Chief Digital & AI Office, Pentagon, DC

- Led migration of analytics pipelines to AWS EMR and Spark, cutting processing time by 35% and annual costs by $120K
- Deployed NLP tools (Python, TensorFlow) for real-time intelligence summaries; automated 400+ hours/year of reporting
- Managed 30-member team, scaling ML deployment and DataOps for high-impact defense analytics

Senior Operations Analyst *Jun 2021 – Jul 2024*
Army Research and Analysis Center, Fort Leavenworth, KS

- Built simulation models (Python, R) and ETL pipelines, supporting $200M+ budget decisions for 34+ Army units
- Automated Tableau dashboards and reporting, increasing analytics delivery speed by 40%

Cryptologic Officer / Team Lead *Jun 2019 – Jun 2021*
NSA / US Central Command, MacDill AFB, FL

- Streamlined data integration between NSA and CENTCOM using AWS and SQL, improving collaboration by 30%
- Produced 100+ intelligence products/year with advanced analytics and custom ML tools

Analytics & Cyber Roles (2011–2019)

- Led data teams (up to 21 analysts) in Korea, Afghanistan, Japan; automated workflows and drove platform migrations

Projects

AI Text Summarization Research: Developed bias-aware summarizer using OpenAI GPT and Python, integrated into Army analysis (published, 2024)
Financify AI: Python/NLP tool that parses SEC filings and applies Lynch/Buffett rules for buy/sell signals
Wargaming Simulations: Built scalable ops models in R and Python; used for real-time combat scenario analysis
SpeakCraft AI: Web app (ReactJS, TensorFlow) for AI-powered debate and communication practice

Education

MS, Computer Science, Univ. of Colorado Boulder (2027 expected)
MS, Applied Statistics & Data Science, Univ. of Kansas (2025), Member Mu Sigma Rho

MBA, Univ. of Kansas (2024)
BS, Mathematics & Economics, Northern Illinois Univ. (2007)

Honors & Certifications

TS/SCI Security Clearance, CI Polygraph
Security+ (CompTIA), Military Intelligence Officer Captains' Career Course
Signal Intelligence/Electronic Warfare, Counterintelligence Operations Management
Fluent Vietnamese (DLI L30/S26/R30)