

NATALIE PALEY

DATA SCIENTIST

EXPERIENCE

Metis · New York, NY *Data Scientist*

Mar. 2020 to Jun. 2020

Metis's 12-week, immersive data science bootcamp is accredited by the Accrediting Council for Continuing Education & Training (ACCET). Metis is the industry's only accredited intensive data science bootcamp. **Completed five end-to-end projects from design through presentation. Please see project section.**

Northrop Grumman · Dulles, VA; Remote *Integration and Test Analyst (2013 - 2020)*

Dec. 2013 to Feb. 2020

Promoted throughout tenure and most recently charged with launching Antares rockets that carried supplies to the International Space Station: monitored and corrected propellant, nitrogen, helium, and oxygen loading using sophisticated software systems during all Antares rocket launches; *Northrop was formerly Orbital ATK and Orbital Sciences Co.*

- Analyzed data from over 200 valves, regulators, pumps, and sensors across nine fluid and gas systems post-launch
- Produced reports from data review of launch pad and rocket interactions in MATLAB
- Proposed tailored software upgrades to aerospace systems post-launch, developed software testing criteria for approved software upgrades, generated full regression testing for launch software after major hardware upgrades
- Led and devised new operator training in launch software/hardware functionality, pre-launch and launch operations, and worst-case scenario drills
- Developed Access Database to visually monitor ripple effects from over 5,000 individual analysis revisions
- Created tracking system for debris and coordinated identification during cleanup after the ORB3 explosion

Operations Analyst (2011 - 2013)

- Created and maintained tracking system for 490 technical documents used by Antares program
- Reduced the number of missing work documentation by 95%, despite a highly demanding documentation environment consisting of seven locations; three departments consisting of 144 engineers, technicians, and safety/quality assurance personnel
- Incorporated engineering changes into working documents and submitted for NASA approval

Capital Asset Manager (2011 - 2012)

- Completed tracking initiative for over 1600 mechanical ground support equipment (MGSE) items, reducing of "out-of-cert" equipment
- Created a tracking system and audited more than 800 capital assets across 32 locations, providing support for additional capital asset acquisitions by the General Manager

Associate Technical Writer and Editor (2010 - 2011)

- Targeted costly training deficiencies; reduced process times by 50%

Materials Production Planner (2008 - 2010)

- Scheduled work for 10-20 cable assembly and thermal protection fabrication technicians

Open Path Products, LLC · Annapolis, MD *Wireless Tester & Project Manager*

Jul. 2007 to Jun. 2008

Testing professional and project manager for one of the world's first mobile app development companies.

- Led efforts to discover and document bugs in cell phone apps, then authored steps for developers to recreate error for further analysis and resolution
- Managed test schedule for game applications; wrote carrier-dependent test plans for 20 testers; and provided progress reports to clients outlining bugs found

PROJECTS

Visualization of NYPD Incidents in New York City

Created a Tableau dashboard, enabling anyone to easily explore the data gleaned from multiple different sources.

Discord Dice and Compliment Bot

Scripted a Discord bot for non-technical people to interact with. As such, it is written to respond to key phrases rather than the more normal commands structure. It sends random compliments and dice rolls for a specified number of sides.

NYC MTA Station Usage Comparison Pre- and Post-Covid

A collaborative project to highlight under-served areas during a crisis.

Video Game Genre Classifier

A classification model using data for video games from last 20 years, visualized in Tableau.

Natural Language Processing using Shakespeare's Plays

Similarity analysis of Shakespeare's plays to recommend theatrical experiences. Identified major themes of each.

Board Game Ranking Predictor

Regression model to predict board game ranking using data scraped from boardgamegeek.com

CONTACT

✉ eachdaybetter@outlook.com

📍 randominternetname.github.io/

📞 703-963-8992

📍 Columbia, MD 21044

🌐 linkedin.com/in/nataliepaley/

📁 randominternetname/Projects

SKILLS

PROGRAMMING LANGUAGES

Python

SQL

MongoDB

SOFTWARE

DOORS

MATLAB

AutoCAD

Fusion 360

Tableau

MACHINE LEARNING

Supervised and Unsupervised

Web Scraping

Natural Language Processing

Recommender Systems

ENGINEERING

Pneumatic Systems

Launch Systems

Data Analysis

EDUCATION

St. John's College

BA Philosophy and History of Math & Science
2007

Howard Community College

AS Mechanical Engineering 2019

STEM Scholar, Phi Theta Kappa Honor Society, National Science Foundation sponsored research

ACTIVITIES

Society of Women Engineers · Guest Speaker

Women in STEM · Panel member

Orbital Toastmasters Club ·

Sergeant at Arms/Founding Member

Meetup Leader

Created and grew a social group to over 1,000 members, with bi-weekly events