607-229-2508
ryanpnickerson@gmail.com
Ithaca, NY
https://github.com/ryanpnickerson/Portfolio

Ryan Nickerson
Data Scientist/Technical Product Manager

Professional Summary

Results-driven data scientist with a proven track record of leveraging large geospatial datasets to drive informed decision-making. Offering over five years of experience in data analysis, visualization, and machine learning forecasting. Successfully led the expansion of a flagship product from 86 locations to 1,100 globally, while automating report generation and delivery. Experienced technical product manager adept at collaborating with cross-functional teams to design and develop innovative products, onboard and train customers, and ensure successful product delivery. Also, served as an advisor, mentoring and guiding operation team members to achieve career growth and develop new skills.

Key Achievements

- Led the expansion of flagship product from 86 locations monitored to 1,100 globally
- Designed, developed, and automated Esri Experience for external users
- Increased report generation and delivery from 25% to 100%
- Created four new ways to present and deliver data to customers (SFTP, Tableau, API integration, Esri visualization)
- Collaborated with CTO to write and convert government contract worth over one million USD yearly
- Advised and trained five technicians into analyst level positions in less than a year

Skills

- **Methodologies**: Machine Learning, Deep Learning, Time Series Analysis, Natural Language Processing, Regression, Random Forest, SVM, Statistics, Explainable AI, A/B Testing and Experimentation Design, Big Data Analytics, GeoPandas, Agile
- **Languages**: Python (Pandas, Numpy, Scikit-Learn, Scipy, Keras, Matplotlib, ArcPy, PyTorch), R (Dplyr, Tidyr, Caret, Ggplot2), SQL, MongoDB, PHP
- **Tools**: MySQL, Tableau, Git, PySpark, Amazon Web Services (AWS), ArcGIS, QGIS, MS Excel, Kubernetes, EC2, Postman

Work Experience

Ursa Space Systems Inc
Data Scientist (Feb 2018 – Mar 2023)

- Write scalable processes and rework existing workflows to increase product value and capabilities using Python
- Perform data accuracy studies to improve forecast precision, data quality, and error handling using Python and R
- Improve and develop data warehouse schema to increase data query efficiency using MySQL and MongoDB
- Create machine learning algorithms for short-term forecasting and prediction using Python and R
- Update and maintain metadata to increase accuracy of operational and geographic information using ArcGIS and QGIS
- Technical Point of Contact for customer questions and troubleshooting using Google Meets, Zoom, and HubSpot

Technical Product Manager (Jun 2020 – Mar 2023)

- Collaborate with Sales team converting trials to completed sales using HubSpot
- Onboard and train new customers on product use cases, integration, and data definition in 1:1 meetings
- Coordinated product improvements, changes, and integration with partner companies
- Lead engineering teams on product design and delivery, algorithm development, and task road mapping
- Represented the P0 lineup internally to Executive team using Microsoft PowerPoint and data visualization tools
- Create roadmaps for product development milestones and tasking for operations team using Miro and Jira

Advisor, Operations Team (Jul 2022 – Mar 2023)

- Host weekly training sessions to teach/improve technical skills such as Python and MySQL
- Weekly 1:1 with technicians/analysts to plan career growth and current/future workload
- Advocate technicians/analysts' skills and capabilities to upper management
- Coordinate with team managers on sprint planning and task delegation

Education

Master's in Applied Statistics (2018 – 2019), **Cornell University**, Ithaca, NY
Bachelor's in Economics (2014 – 2017), **Elmira College**, Elmira, NY
Bachelor's in Mathematics (2014 – 2017), **Elmira College**, Elmira, NY