Sabin Timsina

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Professional Summary

Driven engineer with strong passion towards software product management specializing in the energy industry and leveraging data analytics for innovation and efficiency. Currently pursuing a part-time Master's in Data Science while working full-time as an Automation Engineer (Electric Utility - Renewable Energy). Eager to move into a product management role within the energy industry, bringing a blend of technical expertise, strong leadership, and problem-solving skills.

Education

UNIVERSITY OF PENNSYLVANIA – Philadelphia, PA **Exp. Graduation: 12/2025**
Master of Science in Engineering in Data Science
Coursework**:** Big Data Analytics, Machine Learning for DS

UNIVERSITY OF MISSISSIPPI – Oxford, MS **Graduation: 05/2020**
Bachelor of Science in Electrical Engineering GPA: 3.79
Emphasis: Computer Engineering (Honors) Sally McDonnell Barksdale Honors College

HARVARD BUSINESS SCHOOL ONLINE – Boston, MA
CORe (3 Courses): Economics for Managers, Business Analytics & Financial Accounting

Experiences

Automation Engineer II (Electric Utility, Renewable Energy): TRC Companies, Remote **07/17/2023 – Present**

- Manage full development cycle of RTU (Remote Terminal Unit) programming for individual project: Designing data pipeline to extract data from relays into RTU, process and dispatch it to server in real time (ETL)
- End to end design and testing of HMI (Human Machine Interface) visualizations of substation data
- Collaborate closely with clients and protection department to develop Master points lists and Data maps
- Created VBA macros to auto-generate ST script for RTU programming, ultimately reducing 90% of manual efforts

Engineer (Automation - Electric Utility): Power Relaying Solutions (PRS), Charlotte, NC **08/03/2020 – 07/13/2023**

- Led the complete development and testing lifecycle of RTU and HMI project for various substations
- Worked closely with clients to develop SCADA maps
- Programmed data extraction from relays using time/event trigger on TEAM
- Provided mentorship and technical guidance to interns

Engineering Intern: SOAIR, Oxford, MS **05/14/2017 – 12/13/2019**

- Undertook responsibility of accuracy testing using new Force plate sensor method for Collie Box, medical device by SOAIR
- Automated the processing and visualization of data using MATLAB, ultimately reducing week worth of works to just few minutes
- Generated 3D, FFT, directivity and curve fitting plots for data collected using Collie Box
- Built detailed step-wise documentation of the Collie box

Technical Tools & Skills

Programming	SQL, Python (Pandas, NumPy, Scikit-learn, PyTorch, Seaborn, Matplotlib), PySpark, MATLAB, R, VBA
Data/SDE Skills	Apache Spark, ETL, Hadoop (HDFS, MapReduce, YARN), Agile, ETL, CI/CD, Tableau, SDLC
Azure Skills	Azure Storage, Azure Data Factory (ADF), Azure Databricks, ADLS, Azure Synapse Analytics
ML Skills	Linear/Logistic Regression, Decision Tree, Model Selection, Unsupervised learning, Support Vector machines

Leadership & Awards

Outstanding Senior Leadership Award, School of Engineering **2020**

Student Representative at School of Engineering's Diversity and Inclusion Committee **2019 – Present**

President of Ole Miss Robotics Club / Founding Secretary and Robotics Mentor **2018-2019 / 2017 – 2018**

- Led High School Outreach (Project Leader) in collaboration with Ole Miss IEEE
- Initiated workshop session on projects like Obstacle Avoiding, Smartphone Controlled and Line Tracking Robot

Associated Student Body (ASB) School of Engineering Senator **2018 – 2019**

Engineering Student Body Leadership Council Member (ESB) **2018 – 2019 / 2016 – 2017**

President of IEEE at University of Mississippi **2017 – 2018**

- Started and led the soldering training workshop.
- Organized python tutorial for hardware and led 12 IEEE members to MSU Hackathon

Academic Excellence Award **2016**

National Robotics Competition Winner (Yantra 4.0) **2015**

Honor Societies: Phi Kappa Phi, Tau Beta Pi, Lambda Sigma

Volunteering: First Robotics Volunteer, Campus Tour Guide, Lab Assistant (VHDL Lab)