

Nadir Sidi

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EXPERIENCE

Enel X North America (f.k.a EnerNOC, Inc.), Boston, MA

Jan 2016 - Present

Analytics Developer / Data Engineer

Communicate with internal and external customers to provide data-driven insights into energy usage and energy efficiency opportunities. Cooperate with a data scientist to consume data, structure data, and engineer features for machine learning algorithms. Apply an understanding of machine learning models to service predictions in proof-of-concept and production applications.

- Leveraged the Python Flask web framework, scikit-learn, and AWS abstracted-services to build a regression modelling API to support the energy budgets for an S&P 100 company
- Developed and maintain a SQL Server database to extend Enel's production data model, and support joining of data from various sources, including Enel's Salesforce instance
- Designed and implemented an object-oriented software model in Python and the H2O Machine Learning platform to refactor a legacy, linear regression system against a new microservice architecture
- Built and released several reactive web applications using the R Shiny framework and CSS, for example to support database updates or the real-time application of a neural network model
- Worked in a sales-supporting role to help complete 2 industrial, pre-sales assessments that resulted in both customers signing deals with EnerNOC

Thinkstep (f.k.a PE International), Boston, MA

Jan 2014 - Dec 2015

Sustainability Consultant

Helped clients to understand the environmental life cycle impacts of their products and processes. Managed consulting projects involving complex data analysis, including both internal and external team members. Main responsibilities included understanding the client's business, manufacturing, and industrial processes from a technical perspective, and modelling all processes using Thinkstep's GaBi life cycle assessment software. Created presentations and reports to explain the project results to clients, and identified opportunities to increase business value through quantitative, evidence-based reasoning. Assisted in supporting sales opportunities and client training.

- Successfully managed approximately \$300k in service delivery work, and consistently completed projects on time and under budget
- Became a technical expert in modelling and database management, including recognition as one of the most knowledgeable database content managers in Thinkstep's North American offices
- Was responsible for building parameterized models of industrial processes, including mining, unconventional natural gas production, and US electricity grid consumption mixes
- Served as the technical lead for sales engagements, with a particular focus on product life cycle management
- Leveraged 100% client satisfaction to upsell \$100k of additional business outside of standard job responsibilities

Bechtel Marine Propulsion Corporation, Goose Creek, SC
Reactor Operations Engineer

Dec 2010 - Jan 2014

Worked as a civilian Crew Training Engineer at the Navy's Nuclear Power Training Unit (NPTU) to instruct and qualify Naval officers and enlisted students on the safe operation of shipboard, nuclear systems. Certified students to stand watch as nuclear operators through academic instruction, computer simulation, and actual plant evolutions on a critical reactor. Additionally, supervised routine and corrective maintenance on primary, secondary, and safety systems during both steaming and maintenance periods. Helped to ensure continued proper operation of the plant.

- Aided in the NPTU command receiving a Navy Meritorious Unit Commendation by helping to qualify record-breaking class sizes in spite of significant material issues
- Recognized for superior performance during a temporary assignment in the Environmental, Health, and Safety (ESH) department to help ship's crews better understand and comply to ESH requirements.
- Qualified as supervising watch officer for critical plant operations, shutdown plant operations and maintenance, and emergency safety features
- Managed watch teams in order to accomplish plant training and maintenance evolutions safely, in a timely manner over various shifts throughout the day
- Directed casualty actions and performance during both real and simulated shipboard and site casualties

National Fuel Gas Company, Erie, PA
Engineering Intern

Jun - Aug 2009

- Analyzed a section of pipeline and prepared a report regarding potential issues with its pressure increase
- Worked with a senior engineer to interpret upcoming EPA greenhouse gas inventory reporting requirements and develop a comprehensive compliance plan for the company's future

The Interstate Natural Gas Association of America (INGAA), Washington, DC
Engineering and Research Intern, INGAA Foundation

May - Aug 2008

- Reviewed drafts of consultants' research papers from an engineering perspective and for clarity
- Conducted an industry survey to quantify and report the cost of a recurring pipeline construction issue

EDUCATION

Navy Nuclear Power School, Goose Creek, SC
Jun 2011
Advanced Nuclear Power Course with Distinction

Jan -

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Mechanical Engineering
Double Major in Engineering and Public Policy
Overall GPA: 3.66 / 4.0

Aug 2006 - May 2010

Elected: Risk Manager, Sigma Alpha Epsilon Fraternity; Captain & President, Club Lacrosse Team

ADDITIONAL

- Experienced with MS Office, R statistical computing, Python, GitHub, Microsoft SQL Server, and Spark
- Familiarity with ISO 14040, 14044, and EN 15804 standards
- Working knowledge of AWS cloud services, particularly Lambda, IAM, EC2, S3, and Athena
- Experience with relational databases, specifically Microsoft SQL Server