

DOMINIC NGUYEN

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Education



B.S. Chemical Engineering & B.S. Economics | University of Nebraska-Lincoln | 2014 - 2018

- Double minor in Computer Science and Software Development
- 3.97 GPA, senior, Honors Program member, Dean's List (all semesters)



Data Analyst Nanodegree | Udacity | 2017 - 2018

- Completed data science degree covering machine learning, data wrangling, exploratory data analysis, and data visualization using Scikit-learn, MongoDB, R, Python, SQL, Tableau, D3, NumPy, and pandas.

Experience



CEO & Co-founder | Alumin8 | 2016 – Present (part-time)

- Co-founded recycling startup that converts aluminum cans into products for local community.
- Awarded \$9000 Green Fund grant to scale up operations and promote sustainability.
- Established 7 partnerships with local startups, makerspaces, and university's sustainability office.
- Developed company webpage, social media, and brand with Google Analytics and Adobe Illustrator.



Energy Improvement Engineer Co-Op | ExxonMobil | Spring 2017

- Managed \$7.5M capital risk mitigation project through vendor bid procurement and facility analysis.
- Initiated \$40K instrumentation project to optimize water flow, reducing losses by \$240K/yr.
- Built SharePoint database to track \$100M+ refinery assets and streamline process team communication.



Research Intern | NASA Ames Research Center | Summer 2016

- Awarded \$6000 NASA grant to develop gas nanosensor prototype for environmental assessment.
- Accelerated carbon nanotube sensor manufacturing time by 14-fold and reduced fabrication temperatures by 64%.



NSF REU Research Intern | Mississippi State University | Summer 2015

- Awarded \$6000 National Science Foundation (NSF) REU grant to develop 3rd world nanocomposite solar desalination systems.
- Enhanced thermal conductivity and heat transfer rate of thermal storage device by 48%.

Leadership



Chem-E-Car Co-Chair | American Institute of Chemical Engineers | 2014 –2016

- Lead team of 10+ engineering students to develop chemically-powered vehicle.
- Improved team's technical aptitude by facilitating SolidWorks and AutoCAD skill-building seminars.



Head of Social Committee | Biomedical Engineering Society | 2014 –2015

- Delegated 4-member committee to coordinate social events for student organization of 20+ members.



4-H Tech Wizard | Nebraska 4-H Youth Development | Fall 2014

- Mentored 10+ middle school students in EV3 programming for First Lego Robotics competition.

Projects

Enron POI Identifier

- Built machine learning classifier using Scikit-learn, NumPy, and Python to identify Enron POIs.

OpenStreetMap Cleaning

- Wrangled OpenStreetMap data with MongoDB, Python, PyMongo, and Jupyter.

Wine Exploratory Data Analysis

- Employed R, ggplot2, and dplyr to explore chemical properties affecting wine quality.