Neal Dawson-Elli

Chemical Engineer - Data Scientist

Address

546 NE Ravenna Blvd Apt 303 Seattle, WA 98115

Experience

08/17 - 09/17 **Software Engineer**

Faraday Technologies, Dayton, OH

Design and development of software for data analysis for electropolishing of metal surfaces. Implementation of neural networks for process selection.

Telephone

01/14 - 06/15 **Technician** 1 (607) 857-9791

OLEDWorks, Rochester, NY

Development of software for improved data management in Excel VBA, operation of a chemical vapor deposition chamber for OLED device creation.

Mail

nealde@uw.edu

03/13 - 08/13 Technician

Empire Precision Plastics, Rochester, NY

Database overhaul in Filemaker, creation of searchable databases in Excel, management of injection molding and ultrasonic welding processes.

Web & Git

nealde.github.io github.com/nealde 05/12 - 08/12 Technical Intern

Corning Incorporated, Corning, NY

Independent research on the creation of coatable separators for ultracapacitors, focus on scaling up and improving current processes.

Programming



05/11 - 08/11 **Technical Intern**

Corning Incorporated, Corning, NY

Focus on scaling up of ultracapacitor material fabrication and reduction of hazardous waste.

Education

2015 - 2020 Ph.D in Chemical Engineering (Expected) University of Washington

with Option in Advanced Data Science and Option in Data Science

Research:

Improving the performance of physics-based li-ion battery models using data

science techniques

Principle Investigator: Prof. Venkat R. Subramanian.

GPA: 3.59/4.0

OS Preference

GNU/Linux ★★★★★ Unix ★★★★★ MacOS ★★★★★ Windows ★★★★★

2010 - 2015 B.S. in Chemical Engineering

Rochester Institute of Technology

Main subjects:

Fluid Mechanics, Thermodynamics, Reaction Engineering, System Dynamics

and Control. Material Science

GPA: 3.58/4.0

Availability

Summer 2018

Publications

Interest

Data Analysis Modeling **Machine Learning Software Carpentry** N. Dawson-Elli, S.B. Lee, M. Pathak, K. Mitra, V.R. Subramanian

Data Science Approaches for Electrochemical Engineers: An Introduction through **Surrogate Model Development for Lithium-Ion Batteries**

Journal of the Electrochemical Society - Pending

January 3rd, 2018