

STEPHEN SUFFIAN

stephen.suffian@gmail.com
(267) 671 8589

Relevant Links

Github: www.github.com/ssuffian
LinkedIn: www.linkedin.com/stephensuffian

Address

1567 Gregory Drive
Warrington, PA 18976

EDUCATION

University of Villanova, Villanova, PA

- Masters of Science, Sustainable Engineering, Graduated in May 2013
- Currently pursuing PhD in Electrical and Computer Engineering
- Expected graduation in May 2017

Overall GPA: 3.80

Schreyer Honors College, The Pennsylvania State University, University Park, PA

- Bachelor of Science, Electrical Engineering
- Graduated in May 2010

Overall GPA: 3.80

COMPETENCIES

- Languages/Platforms: Linux, Java, Python, JavaScript
- Databases: PostgreSQL, MySQL, SQLite, Apache Cassandra, Apache Solr, mongodb
- Machine Learning: Support Vector Regression, Artificial Neural Networks, Hidden Markov Models
- Implemented Stacks (LAMP, Linux-Tomcat-Solr-Java-Ajax, Linux-Apache-mongodb-django-Ajax)

RELEVANT EXPERIENCE

Co-founder, Chief Technical Officer for Needsgap LLC

January 2015-Present

- Design and develop full-stack custom church management web service (hisKingdom.info)
- Create a unique ranking system match members to events and groups using profile data
- Service currently used by over 5000 church members

PhD Candidate, Information-Driven Grid Flexibility for Nicaragua

September 2013-Present

- Evaluate value of improved day-ahead forecasting for regional/national power grids through full-scale simulation of daily grid operations
- Develop improved machine learning methods for day-ahead forecasting using publically available and locally gathered data

Data Science for Social Good Fellow 2014 (Chicago)

June 2014-August 2014

- Developed web portal for utility customers with smart electricity meters to view their disaggregated energy consumption and targeted energy reduction recommendations
- Built regressions and hidden markov models in python to disaggregate household energy signals in order to estimate proportion of energy usage taken by the HVAC system

Humanitarian Engineering and Social Entrepreneurship Fellow (Kenya)

January 2011-March 2013

- Interviewed 100+ supply chain actors to discover value-addition opportunities
- Conducted research to develop blueprint for appropriate technology business models
- Taught technology literacy to 30 diabetes educators to allow access to tele-health system
- Developed self-sustaining preventive-health venture with community health workers which currently sees over 10,000 community members each year