Daniel **Kurniawan**

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Education

Georgia Institute of Technology **Atlanta, GA**

B.S. in Industrial and Systems Engineering *August 2014 - December 2017*

- GPA: 3.55

Experience

SpaceX **Hawthorne, CA**

Data Scientist *Jan 2018 - Present*

- Developed machine learning algorithms to enhance enterprise technologies, including a computer vision based deep learning model to expedite video review in test operations.
- Designed a Python machine learning platform and toolkit consumed by developers across the company to build and deploy applications.
- Collaborated with cross-functional teams across disciplines such as product, engineering, and supply chain.
- Developed models to better predict work order completion dates to optimize forward scheduling of manufacturing operations.

SpaceX **Hawthorne, CA**

Software Engineer, Machine Learning Intern *May 2016 - August 2017*

- Implemented a supervised learning classifier that predicts the proper disposition for machine shop non-conformance defects to accelerate the issue handling process and increase reliability of the rocket.
- Developed a language processing library to help data scientists perform common tasks such as data cleansing, text vectorization, and computing similarity of text documents.
- Developed several natural language processing algorithms using word2vec, TF-IDF, and topic modeling to identify and rank related text documents.
- Created a data partitioning strategy to minimize network latency and improve scalability throughout the data warehouse.

Dan Food Services Corporation **Annapolis, MD**

Quantitative Analyst *June 2013 - May 2015*

- Designed the labor vs. sales optimization program for restaurant operations by analyzing forecasted and historical sales data and airline traffic patterns in R.
- Developed a predictor model in Python (using NumPy and Pandas) and visualization in Tableau to determine an optimal amount of inventory stock needed to meet variability in customer demand.

Projects

Malaria Vector Control (in collaboration with the CDC) **August 2017 - December 2017**

- Developed a simulation for malaria transmission based on human-mosquito interaction and existing malaria prevention efforts.
- Modeled the return on investment of implementing *indoor residual spraying* for malaria program managers to mitigate infection, monitor risk, and trace disease during an outbreak.

FairEstimate **January 2017 - July 2017**

- Led the development of a web application built around the Google Maps and Uber APIs to compare and visualize real-time cost and trip duration estimates for different rideshare services.
- Developed a neural network to train a model with 98% accuracy to predict taxi fares using the NYC Taxi dataset (>20 mil records).

Skills

Languages: Python, R, SQL, Java, JavaScript, Swift, Scala, MATLAB
Libraries: d3.js, Keras, TensorFlow, NLTK, OpenCV, scikit-learn, Elasticsearch
Technologies: HTML5, CSS3, Hadoop, Spark, Pig, REST, Docker, JSON
Software: Tableau, Microsoft Azure, AWS, Weka, OpenRefine, Arena