

MARIO WIJAYA

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Master of Science in Analytics

Atlanta, GA

May 2018

- Relevant Coursework: Data & Visual Analytics, Machine Learning, Computational Methods, Information Visualization

GEORGIA INSTITUTE OF TECHNOLOGY

Bachelor of Industrial & Systems Engineering (Operations Research) - Highest Honor

Atlanta, GA

May 2017

- Relevant Coursework: Data Input/Manipulation, Stochastic System, Simulation, Deterministic Optimization

SKILLS

Programming/Software/Database: D3, JavaScript, Python, R, Gephi, Matlab, Arena, Simio, MiniTab, SQL, Tableau, Qlikview, MongoDB

- **Basic Level:** Java, C, Spark, Hadoop - MapReduce, Pig, AWS, Microsoft Azure, Node.js, React.js, Xpress, Cplex
- Analytical Techniques:** Clustering, Forecasting, Machine Learning, Optimization, Regression, Simulation, Stochastics

EXPERIENCE

VERTAEON

Developer/Analyst

Atlanta, GA

Dec 2017 - Present

- Developed an application using Node.js to automate data retrieval through API call for clients used for analysis
- Created 2 Python scripts to automate data filtering process and output the information based on user's input

SUNTRUST BANKS INC.

Business Analyst

Atlanta, GA

Jun 2017 - Aug 2017

- Data mined using Python script to support sustainability strategies to reduce 2% of air travel annually by equipping audio devices to employees, shift 5% of the domestic flights to a carbon efficient airline, and convert default rental car option to economy resulting in reduction of 1.9M lbs. of CO₂ and \$1.2M savings over span of 5 years
 - **Resulting Award:** Winner of 2017 GT Carbon-Reduction Challenge (selected from among 10 teams)
- Reverse engineered Operational Loss dashboard by mapping the underlying code of the dashboard to the databases that provide summary of operational losses and forecast data of the bank transactions
- Optimized Operational Loss dashboard with 2 additional COGNOS reports and redesigned user interface, while considering client's needs and usability

W. L. GORE & ASSOCIATES INC.

Operations Analyst

Flagstaff, AZ

May 2016 - Aug 2016

- Devised a time-based load shipment frequency proposal to maximize usage of a sterilization chamber generating in annual savings of \$220K in sterilization cost
- Developed a plan to level load shipment frequency to decrease the overcapacity of a sterilization chamber resulting in annual savings of \$66K in sterilization cost
- Achieved \$27K reduction in annual transportation spending by optimizing shipping practices
- Relocated consolidation point and adjusted routing schedule decreasing lead time by a day

ACADEMIC EXPERIENCE

GEORGIA INSTITUTE OF TECHNOLOGY

Graduate Teaching Assistant - Information Visualization (CS4460)

Atlanta, GA

Jan 2018 - Present

- Teach visualization and programming concepts using d3.js to 120+ students during lab session each Friday
- Provides students with one-on-one visualization and programming tutoring during office hours

GEORGIA INSTITUTE OF TECHNOLOGY

Material Analytics Research

Atlanta, GA

Jan 2016 - May 2016

- Utilized statistical modeling to model material process and minimize real-life experimentation costs
- Used model to facilitate the decision of process conditions for getting materials with certain properties
- Created a predictive model using big data analytics tools to optimize material designs and facilitate decision

PROJECTS

- **MovieHunt** - Created an interactive visualization system to help users find the next movies to watch. *D3, jQuery*
- **DisFood** - Improving chronic disease control via food pantries using machine learning & visualization. *D3, Python*
- **Wine Quality** - Modeled wine quality using classification algorithms to predict whether a given wine is good/bad quality and regression to estimate wine quality using machine learning approach. *Python, R*
- **Predicting S&P 500 Moving Average** - Developed Support Vector Machine model with Stochastic Gradient Descent to predict leading/trailing of stocks with 80% accuracy and beat Scikit-learn accuracy by 5%. *Python*
- **Ticket Management System** - Developed a Graphical User Interface application to manage train tickets systems. Designed the database and its tables by creating Informational Flow, Relational Schema, and Enhanced Entity Relationship Diagrams. *Python, MySQL, SQL*

ADDITIONAL INFORMATION

Leadership: President of Georgia Tech Badminton Club (2016-2017), Treasurer of Georgia Tech Badminton Club

Languages: English, Chinese Taiwanese, Chinese Mandarin, Bahasa Indonesia, Standard Malay

Club/Activities: Badminton Club at GT, Data Science at GT / Reading, Running, Watching Movies and Hiking