Sethatevy Bong

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EDUCATION

Smith College **Anticipated May 2022**
B.A in Computer Science and Statistical and Data Science *Northampton, MA*
- 3.66 / 4.0 GPA
- Current Course Works: Introduction to Data Science | Computer Graphics | Microprocessors and Assembly Language
- Certification: IBM Machine Learning with Python Certificate Jan 2021
- Self-study: AWS Machine Learning University: Accelerated Natural Language Processing Class On-going

Montgomery College **May 2020**
A.A in Information System *Rockville, MD*
- Honors 3.91/4.0 GPA
- Course Works: Computer Science I | Systems Analysis and Designs | Discrete Structures | Principle of Economics I

PROFESSIONAL EXPERIENCES

National Institute of Standards and Technology **Jan 2020 – August 2020**
Research Intern *Gaithersburg, MD*
- Developed two **MATLAB** programs to assess the measurement error of surface texture for metal additive manufacturing
- Applied Monte Carlo methods based on slopes and point by point statistics to produce accurate examinations
- Located surfaces' defects on 17M data points using two-dimensional and three-dimensional data visualization
- Established a fitted function of over 94% accuracy for noise and surface data using cumulative distribution function

Library of Congress, The John W. Kluge Center **August 2019 –Jan 2020**
Research Intern *Washington D.C*
- Investigated the security of national election infrastructures created by private entities and maintained by local jurisdictions
- Collected and organized primary data from all 50 states' election systems with updated news and complaints
- Evaluated the technical aspects of recorded compromised voting machines and infrastructures in the United States

Montgomery College **Jan 2019 – October 2019**
Math Tutor *Rockville, MD*
- Helped students with their Precalculus, Calculus I, Calculus II, and Introduction to Engineering Design courses

PROJECTS

Stock Prediction Using Machine Learning (Python) **(Individual) Jul. 2020 – Present**
- Develop tree prediction and linear regression prediction models using **Scikit-Learn**, **Pandas**, and **Matplotlib** libraries
- Visualize each model with comparison to the existing stock trend to distinguish the algorithm's accuracy

Object Detection (Python and OpenCV) **(Individual) Dec. 2020 – Present**
- Implement **SSD MobileNetV3** algorithm and COCO dataset to identify multiple objects

Data Analytic: The Power of Bicycles to Fight Climate Change (R and SQL) **(Group) Dec. 2020**
- Imported weather data and determine a decrease in Citibike trips when rainfall is over 2 inches
- Leveraged **Leaflet**, **sf**, and **RMYSQL** libraries to create spatial data for the top 50 busiest stations of Citibikes in the NYC

Leaderships and Awards

Vice-President*, Society of Women Engineers,* Smith College **Fall 2020 – Present**
- Reaching out to speakers and directing virtual social networking events for 20 club members

Vice-President, *Phi Theta Kappa (PTK),* Montgomery College **Spring 2019 – Spring 2020**
- Organized events and promoted social connectivity and communal involvement to 400 PTK members

Bronze Medalist, *Singapore and Asian Schools Math Olympiad* **Spring 2016**
- One of Asia's largest math contest with over 2000 participants across 19 countries

Third Place, Free Style Circuit Design Contest, Zaman International School, Cambodia **Spring 2016**
- Designed a lighting periodic table circuit in a group of three juniors to compete with over 100 juniors

SKILLS

- **Technical skills:** Emacs, Linux, Creo Parametric, SolidWorks, Blender, Latex, IBM Watson Studio, Pandas, Matplotlib, Tidyverse, and Scikit-Learn
- **Programming:** Java, R, Python, C, MATLAB, SQL, C++, Html, JavaScript, and CSS