

# Sethatevy Bong

[Sethatevy98@gmail.com](mailto:Sethatevy98@gmail.com) ❖ (240) 374-8056 ❖ Lowell, MA ❖ GitHub: Tevy-B

## EDUCATION

### Smith College

Anticipated May 2022

*B.S in Computer Science and Statistical and Data Science*

*Northampton, MA*

- Current Course Works: Introduction to Data Science | Computer Graphics | Microprocessors and Assembly Language
- Certification: IBM AI Engineering Professional Certificate

Anticipated Jan 2021

### 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 | Mechanics of Materials

## SKILLS

- **Tools:** Eclipse, RStudio, Visual Studio Code, SSH, Emacs, Linux, LaTeX, Tableau, PyTorch, TensorFlow, Jupiter Notebooks, Scikit-Learn, and Apache Spark
- **Engineering Software:** PTC Creo Parametric, SolidWorks, and Autodesk Inventor
- **Programming:** Java, R, Python, C, MATLAB, SQL, C++, Html, JavaScript, and CSS
- **Language Skills:** English, Khmer, and Chinese

## PROFESSIONAL EXPERIENCES

### National Institute of Standards and Technology

Jan 2020 – August 2020

*Research Intern*

*Gaithersburg, MD*

- Assessed the effect of measurement error and bias on the calculation of surface texture parameters for Metal AM surfaces
- Built and developed two **MATLAB** algorithms to analyze approximately 17M data points
- Applied Monte Carlo methods based on slopes and point by point statistics to produce accurate examinations
- Located surfaces' defects by using data analysis along with two-dimensional and three-dimensional data visualization
- Established the best fitted function for noise and surface data using probability and cumulative distribution functions

### 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

## PERSONAL PROJECTS

### Stock Prediction Using Machine Learning (Python)

Jul. 2020 – Present

- Develop model tree prediction and linear regression prediction to predict stock trends

### Email Generator for New Hires (Java)

Aug. 2020 – Present

- Generate an email with the following syntax: [firstname.lastname@department.company.com](mailto:firstname.lastname@department.company.com) with a random password

### Song Recommendation System (Python and Tkinter)

Dec. 2020 – Present

### Object Detection (Python and OpenCV)

Dec. 2020 – Present

### Data Analytic: The Power of Bicycles to Fight Climate Change (R and SQL)

Dec. 2020

## 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 engineering students at Smith College

### Vice-President, *Phi Theta Kappa (PTK)*, Montgomery College

Spring 2019 – Spring 2020

- Organized events and worked with officers to promote social connectivity and communal involvement to 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