Sethatevy Bong

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EDUCATION

Smith College — Anticipated May 2022
B.A in Computer Science and Minor in Statistical and Data Science — *Northampton, MA*
- 3.61 / 4.0 GPA

Montgomery College — May 2020
A.A in Information System — *Rockville, MD*
- 3.91/4.0 GPA, Honors
- **Course Works:** Data Structure| Computer Graphics| Microprocessors and Assembly Language | Algorithms | Introduction to Software Engineering | Systems Analysis and Designs | Discrete Structures | Introduction to CAD | Data Ethnography

PROFESSIONAL EXPERIENCES

Vertex Pharmaceuticals — June 2021 – August 2021
Process Excellence Intern — *Remote, MA*
- Analyzed and extracted state of equipment data from **Nuvolo** for change of line good manufacturing practice (GMP)
- Built applications to automate disassembly and assembly activities with **Tulip** and **Asana** for standalone manufacturing equipment
- Developed a mobile application for a massive pill producer consisting of ~2300 parts Disassembly build-out using **Tulip**
- Designed layouts and procedural content from **QDocs** to optimize UI/UX and support on-site operators with processes
- Coordinated a project interfacing **Tulip** and **OSI PI** using **HTTP connectors**, **RESTful API,** and **PI Asset Framework Server**

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
- Identified 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 the cumulative distribution function

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
- 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
- Implement **SSD MobileNetV3** algorithm to identify multiple objects
- Utilize **COCO** dataset to recognize 80 types of objects in an image, a video, and a live webcam

Data Analytics: The Power of Bicycles to Fight Climate Change (R and SQL) — (Group) Dec. 2020
- Utilized **RMarkdown** to import the 2017 weather data in New York City
- Leveraged **Leaflet**, **sf**, and **RMYSQL** to create spatial data for the top 50 busiest stations of Citibikes in the NYC

LEADERSHIPS & AWARDS

President, *Society of Women Engineers,* Smith College — Summer 2021 – Present
- Managing and directing social networking events for 80 active 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 contests with over 20,000 contestants across 19 countries

Third Place, FreeStyle Circuit Design Contest, Zaman International School, Cambodia — Spring 2016

SKILLS

Programming: Java, R, Python, MATLAB, SQL, C, HTML, JavaScript, and CSS
Certification: IBM Machine Learning with Python

Technical skills: Tulip, Eclipse, Jupiter Notebook, Pandas, Figma, Blender, DaVinci Resolve, Tidyverse, PuTTY, SolidWorks, and Amazon Web Services (AWS)