

Sethatevy Bong

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☎ (240) 374-8056

📍 Northampton, MA



EDUCATION

Smith College

B. A in Computer Science and Minor in Statistical and Data Science | GPA: 3.68

Anticipated May 2022
Northampton, MA

Montgomery College

A.A in Information System | GPA: 3.91, Honors

May 2020
Rockville, MD

Relevant Coursework: Algorithms | Introduction to Software Engineering | Systems Analysis and Designs | Data
Ethnography | Introduction to Data Science | Microprocessor and Assembly Languages | Theoretical Computation

PROFESSIONAL EXPERIENCES

Smith College | Toyota Research Institute (TRI)

Research Assistant

Sep. 2021 – Present
Northampton, MA

- Investigate methods to build a story generation system with NLP using **Emacs**, **Slime**, and **CLisp**

Vertex Pharmaceuticals

Process Excellence Intern

Jun. 2021 – Aug. 2021
Remote, MA

- Built applications to automate disassembly and assembly tasks with **Tulip** and **Asana** for manufacturing equipment
- Developed a mobile application for a massive ~2500 parts pill producer disassembly build-out
- Designed user interface and added procedural content from **QDocs** to optimize UI/UX and support on-site operators
- Coordinated a project interfacing **Tulip** and **OSI PI** using **RESTful API**, and **PI Asset Framework Server**

National Institute of Standards and Technology

Research Intern

Jan. 2020 – Aug. 2020
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

PROJECTS

Stock Prediction Using Machine Learning (Python)

(Individual) Jul. 2020

- Develop tree 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

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

[ValetBike](#) Bike Sharing Web Application (Ruby, Ruby on Rails, and Devise Gem)

(Group) Dec. 2021

- Built an interactive map using **Google Map JavaScript API** to mark bike stations
- Added a pop-up menu to each bike station to display address and a redirect link to get directions using **JavaScript**

LEADERSHIPS & AWARDS

Team Leader, *Best Partnership Award*, *Smith Prize in Entrepreneurship*

Spring 2021

President, *Society of Women Engineers*, *Smith College*

Summer 2021 – Present

- Leading and directing social events for 150 active members

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

Spring 2019 – Spring 2020

- Organized events and promoted social connectivity and communal involvement to 400 members

Research Assistant, *The John W. Kluge Center*, *Library of Congress*

Aug. 2019 – Jan. 2020

- Investigated the security of national election infrastructures created by private entities

Math Tutor, *Ackerman Learning Center*, *Montgomery College*

Jan. 2019 – Oct. 2019

SKILLS & SOFTWARES

Programming: Java, R, Python, CLisp, MATLAB, HTML, JavaScript, CSS, and C

Certification: IBM Machine Learning with Python

Technical skills: NumPy, Scikit-Learn, Matplotlib, Tidyverse, Figma, Blender, Tableau, Ruby on Rails, DaVinci Resolve, and Amazon Web Services (AWS)