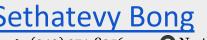
Sethatevy Bong





tevybong@gmail.com

Northampton, MA

EDUCATION

Smith College B. A in Computer Science and Minor in Statistical and Data Sciences | GPA: 3.68 Anticipated May 2022 Northampton, MA

> May 2020 Rockville, MD

Montgomery College

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

Relevant Coursework: Algorithms | Software Engineering | Systems Analysis and Designs | Data Ethnography | Multiple Regression | Computational Machine Learning | Microprocessor and Assembly Languages | Computer Vision

SKILLS & SOFTWARES

Programming: SQL, Python, R, Java, 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)

PROFESSIONAL EXPERIENCES

Smith College | Toyota Research Institute (TRI)

Research Assistant

Sep. 2021 - Present Northampton, MA

Optimize a script-based story generation system using **Emacs**, **Slime**, and **Common Lisp**

Vertex Pharmaceuticals

Jun. 2021 – Aug. 2021

Process Excellence Intern

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 **ODocs** 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

Jan. 2020 - Aug. 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 Monte Carlo Simulation and probabilistic graphical models
- Established a fitted function of over 94% accuracy for noise and surface data

PROJECTS

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 link directions on Google Map using **JavaScript**

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

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

LEADERSHIPS & AWARDS

CEO of TARO, 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