Sethatevy Bong

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EDUCATION

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

Montgomery College May 2020
A.A in Information System | GPA: 3.91, Honors *Rockville, MD*

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) Sep. 2021 – Present
Research Assistant *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 **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 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