

Nishith Soni

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EDUCATION

University of Maryland, Baltimore County | Baltimore, MD

Expected May 2025

Bachelor of Science in Computer Science

GPA: 4.0/4.0

- **Coursework:** Computer Science I/II (**Python, C++**), Data Structures & Algorithms (**C++**), Computer Organization (**C, Assembly**), Operating Systems (**C**), Artificial Intelligence, Database Management Systems, Software Engineering

EXPERIENCE

Software Engineering Intern | UBER

May - August 2024

UberSTAR Software Engineering Intern | UBER

May - August 2023

- Reduced pipeline serialization-based import errors by 30% through improved visibility and intuitive self-diagnosis techniques, resulting in a 40% drop in support tickets for quicker resolution.
- Enhanced data workflow pipeline efficiency by refining error messages for the **Python** SDK, leading to a significant 25% reduction in on-call reach-outs due to user confusion during import errors.

Security Infrastructure Technician | University of Maryland, Baltimore County

Sep 2022 - Present

- Detected, triaged, and investigated 75+ weekly information security incidents using UMBC's ticket tracking system (RT), achieving an average resolution time of 1 hour per incident.
- Utilized advanced SIEM tools (**Splunk** and **Elasticsearch**) to generate comprehensive reports and dynamic dashboards, resulting in a 20% increase in proactive threat detection and 30% faster incident response.

Technical Organizer | hackUMBC

Jan - October 2022

- Optimized the hackathon website using **React.js** with a team of 3+ members, enabling efficient capture of registrant information through a Typeform and resulting in a 20% YoY increase in registrations.
- Developed a collaborative **Node.js** bot to automate sponsor outreach, leveraging an API for targeted emails and dynamic Google Sheet updates, resulting in streamlined processes and an increase in sponsor engagement and funding of over \$20k.

Creative Coders Coordinator | Baltimore County Public Schools

Jan - May 2022

- Guided 20+ students and 3+ volunteers in building and programming VEX IQ robots using **Python**, resulting in a 95% pass rate on coding assessments.

PROJECTS

[Image Colorizer](#) | Bitcamp Project (Python, OpenCV, NumPy)

Apr 2022

- Achieved a colorization accuracy of 90% by leveraging a convolutional neural network (CNN) and deep learning models to transform black and white images into vibrant and realistic colorful images.
- Successfully trained the network to predict the ab channels from the L channel input, resulting in an average colorization error reduction of 70% and producing visually pleasing and accurate colorized images.

[Breast Cancer Detector](#) | Personal Project (Python, Matplotlib, NumPy, Pandas, Seaborn)

Mar 2022

- Detected the presence of breast cancer with 96.5% accuracy through the implementation of random forest classification on a dataset of over 500 patients, ensuring reliable and precise identification of cancer cases.
- Utilized logistic regression, decision trees, and random forest techniques to classify correlation data on training and testing datasets, achieving a testing accuracy of 90% and determining the optimal approach for predicting the presence of cancer cells.

[Crypto Sentiment Analysis](#) | HackUMBC Project (Python, Twitter API, Tweepy, TextBlob)

Oct 2021

- Won best data-driven project competition with 95% accuracy in calculating raw popularity/connotation score for a user-inputted cryptocurrency using the 100 most recent tweets, achieving 85% accuracy and providing valuable insights into public perception.

SKILLS

Languages: Python | C/C++ | Java | HTML/CSS | Javascript

Technologies: Node.js | React.js | jQuery | Express.js | Flask | NumPy | Pandas | Scikit-learn

Tools: Git/Github | MongoDB | MySQL | PostgreSQL | Splunk | Elasticsearch