MANISH NIURE

EDUCATION

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Howard University - Washington, DC

• Bachelor of Science in Computer Science

Aug 2021 - May 2025

CGPA: 4.0/4.0

 Relevant Coursework: Applied Data Science, Artificial Intelligence, Operating Systems, Linear Algebra, Fundamentals of Algorithms, Discrete Math, Computer Networks, Large Scale Programming, Database Management Systems, Cal I, Cal II

Google Tech Exchange - Exchange Program

Spring 2023

An academic program where Google Engineers teach computer science topics to students

• Relevant Coursework: Software Engineering, Product Management, Intro to Machine Learning, Data Structures and Algorithms.

Technical Skills - Java, C, C++, Python, Java, Ruby, Flask, React, MATLAB, Javascript, HTML/CSS, Jinja, MongoDB, SQL, DynamoDB, Git, VIM

WORK EXPERIENCE

Meta, Menlo Park, CA

May 2024 - Aug 2024

Software Engineer Intern - ENT framework

- Developed and optimized an API for internal testing using PHP on the EntFramework Infrastructure Team, ensuring robust validation and data integrity across diverse storage systems like TAO, ZippyDB for social graphs
- Expanded API adoption, with over 40% of engineers at Meta utilizing it for testing their data across all major platforms, streamlining workflows and boosting productivity
- Collaborated closely with senior engineers to design and implement a solution

Amazon Web Service, East Palo Alto, CA

May 2023 - Aug 2023

Software Development Engineer Intern - AWS Lake Formation

- Actively collaborated with the AWS LakeFormation team, contributing to multiple pivotal projects by leveraging Java,
 Python, and Ruby in AWS environments
- Utilized Python and Ruby to automate the deployment process step Model Change Management (MCM), reducing the creation time from 3 hours to just 5 minutes and increasing the efficiency by 95%
- Updated the API by integrating a timestamp feature into data cell filters using Java, enhancing data traceability and strengthening platform data integrity

Howard University, Washington, DC

Oct 2023 - April 2024

Research Assistant - Phase Based Motion Processing

- Leveraged phase-based motion processing techniques using MATLAB and Python to detect subtle vibrations in physical
 infrastructure, invisible to the naked eye
- Contributed to determining the natural frequency of structures from the recorded video to assess potential failure risks

Howard University, Washington, DC

May 2022 - Dec 2022

Research Assistant - AIM HEAD and Alexa Project

- Tested the YALE datasets of around 100k images and used it for facial and ear recognition using Python
- Achieved a 90% accuracy rate for facial recognition algorithms and 75 % for ear recognition algorithms by testing and
 refining them with editing software like Adobe Photoshop to add occlusions, adjust lighting, and enhance image quality

PROJECTS

Custom Shell Oct 2023

- Developed a command shell from scratch in C, implementing core features inspired by widely-used shells such as sh, bash, csh, and tcsh
- Applied problem-solving skills to address challenges in parsing commands, managing processes, and ensuring
 compatibility with standard shell functionalities

Disaster Tweet Classifier – Google Tech Exchange

May 2024

Developed a disaster tweet classification model using TensorFlow, Scikit-learn, Pandas, and NumPy, significantly improving
its accuracy through comprehensive hyperparameter tuning

Local Wiki - Google Tech Exchange

May 2023

June 2022

- Built a wiki application using Python, Flask, HTML, CSS and Jinja for users to browse through information about local
 places in their area. Deployed the app on Google Cloud Platform using CI/CD
- <u>Designed</u> and lead a feature to support searching, sorting and filtering of wiki pages to enhance user experience
- Collaborated with a team of 3 students and reviewed each other's design docs and merge requests

Digital Notebook

datahase

- Developed a custom digital notebook application using Python's Tkinter for the user interface and SQLite3 for database management, tailored to efficiently manage and store college assignments
- Implemented features such as search, categorization, and sorting to enhance note management and ensure seamless retrieval and organization of academic materials

ACTIVITIES

VTHACKS 12 Virginia Tech University Hackathon-Team Work

Sept 2024

- Developed SideQuest in React, a web app using machine learning to match user preferences with location types via Universal Sentence Encoder 4
- Implemented a Reinforcement Learning agent to optimize trip recommendations based on multiple factors, integrating with Google Maps AP

Above and Beyond Computer Science (ABCS) Program - Meta

Jan 2024 - Feb 2024

Selected as one of 100+ participants from across the US and Singapore to participate in Meta's 5-week ABCS Program

 Attended weekly workshops focused on mastering the knowledge, skills, and mindsets for a successful technical interview in the industry