Hiwot Tadesse

CONTACT INFORMATION

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Unit 122,
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EDUCATION

Benedict College, Columbia, SC   2018–2022

Bachelor of Science in Computer Engineering, GPA: **4.0/4.0**
Advisor: Prof. Jessica Furrer

PUBLICATION

Murray-Tuite, Pamela, Thomas Shirley, Bhavya Padmanabhan, Nathan Huynh, Gurcan Comert, Jiayun Shen, Hiwot Tadesse, and Treylon Wofford. "Assessment of Autonomous Vehicle Sharing For Evacuation and Disaster Relief." (2021).

RESEARCH EXPERIENCE

IBM Research   May – August 2021
Research Intern

- Developed a tool that helps discovery of configuration parameters for legacy application by taking a programming language agnostic approach.
- Built a knowledge base and integrate it to generate queries to conduct a search using AI and NLP techniques.
- Contributed to tackle opensource community as part of Konveyor project that support the modernization and migration of applications to Kubernetes.

Google Research   Feb – April 2021
CS Research Mentorship Scholar

- Participated in Google Computer Science Research Mentorship program, a 12 week program for highly promising underrepresented minorities in computer science.
- Attended weekly meetings and seminars discussing pathways for entry in research, current and future research opportunities at google and techniques for performing effective research.

Benedict College, Transportation Department   Sept 2019 – May 2020
Undergraduate Research Intern

- Conducted independent research to predict the queue length at traffic intersection of connected vehicles by using DQN neural network, deep learning and artificial intelligence.
- Performed background study on reinforcement learning to have a basic understanding of the problem of statement.
- Organized weekly progress meetings with group members to discuss project needs and present research findings.

University of South Carolina   May – August 2019
Undergraduate Research Intern

- Performed background study for software and system security method within a focus on mobile computing.
- Gained exposure to approaches such as fuzzing and mobile application and security practices.
- Organized weekly progress presentations with managers to discuss research needs and findings.

PROFESSIONAL EXPERIENCE

Microsoft Corporation   June – August 2020
New Technologist Intern

- Led development of prototype web application to increase digital literacy across youth using social media from end to end using Agile methodology and design thinking.
- Developed a vision, identified user needs, developed project scope, and implemented a working prototype within aggressive timelines.
- Provided design and development solutions that were successfully implemented in the final product of the project.
- Learned industry development practices such as code review, unit/integration testing and product specs.

Benedict College Cyber Security Department   Sept – Dec 2019
Cyber Security Intern

- Gained experience in python programming language using a raspberry pi to work on Robotics programming and assembly.
- Assisted in teaching middle school and high school students the basics of python to help them build a robot.

SERVICE & OUTREACH	**Society of Women Engineers (SWE) Chapter at Benedict College**	2019 – 2022

Co-founder and Vice president

- ○ Organize a mentor-ship program, "Big Sister – Little Sister Match Up" pairs upperclassmen and professional women in STEM fields (Volunteers) with freshman students for one to one tutoring and mentoring.
- ○ Plan and execute info sessions, professional events, resume critiques, interview critiques with company representatives for SWE members.

National Society of Black Engineers Chapter at Benedict College 2020– 2022

Vice President

- ○ Supervise the NSBE leadership board ensuring assigned duties were being executed efficiently.
- ○ Communicate through email, virtual software, and in-person with company recruiters to create networking opportunities for NSBE members.

Benedict College 2020 – 2022

Student Success Leader

- ○ Lead small incoming student groups by providing a welcoming, introductory experience for new students along with their visiting friends and families to ensure a smooth transition into the community.
- ○ Assist with the organization, preparation, implementation, and evaluation of New Student Orientation programs.

Benedict College 2019 – 2022

Peer Tutor

- ○ Meet with students on a one-to-one or small-group basis to give learning assistance in Computer Science and Mathematics Courses to help students improve their grades.
- ○ Prepare and organize study nights for Midterms and Final exams.

HONORS AND AWARDS

Benedict College Outstanding Senior of Class of 2022	2022
Benedict College Outstanding Senior Awardee from Arts Sciences Department	2022
Benedict College Fall Research Awardee	2021
Benedict College Presidential Trophy Recipient	2019, 2020, 2021,2022
Benedict College Honors Program Inductee	2019, 2020, 2021,2022
Thurgood Marshall College Fund Apple HBCU Scholar	2019
Benedict College Trustee Scholarship Recipient	2018, 2019, 2020

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, Typescript, React, Redux, SQL

Technical Softwares: MATLAB, OpenCV

Version Control System: Git/Github

REFERENCES **Dr.Gurcan Comert**

Benedict College
E-mail: Gurcan.Comert@benedict.edu
Dr.Qaing Zeng

University of South Carolina
E-mail: Zeng1@cse.sc.edu
Dr.Anup Kalia

IBM T.J Watson Research Center
E-mail: Anup.Kalia@ibm.com