WINSTON MOH TANGONGHO

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AVAILABLE: JANUARY – AUGUST 2020

EDUCATION

Northeastern University *Boston, MA*
Khoury College of Computer Science
Candidate for a Master of Science in Computer Science | **GPA:** 3.7/4.0 *January 2019 - December 2020*
Related Courses**:** Data Structures and Algorithms, Programming Design Paradigms, Computer Systems and Architecture
Minnesota State University, Mankato *Mankato, MN*
Bachelor of Science in Computer Engineering | **GPA:** 3.8/4.0 *May 2018*
Related Courses: Computer Hardware and Organization, Algorithmic Structures, Digital and Electronic Systems Design, Software Engineering, Operating Systems Design, Fundamentals of Software Development

TECHNICAL KNOWLEDGE

- **Operating Systems**: Linux (Ubuntu), Windows OS
- **Languages**: C/C++, Java, Python, C#, Ruby, Verilog, VHDL, MATLAB, HTML5, CSS, JavaScript
- **Software**: Git, Visual Studio Code, Android Studio, Microsoft Azure, Anaconda, MS Office, AutoCAD, Cadence, Quartus, Eagle CAD, Wireshark, Packet Tracer, Java Swing
- **Databases**: MongoDB, Oracle SQL, PostgreSQL
- **Hardware**: AVR XMEGA, Arduino, Raspberry PI, Atmel SAM D21
- **Frameworks**: freeRTOS, Rails, Bootstrap, Flask

WORK EXPERIENCE / ACADEMIC PROJECTS

Computer Science Teaching Assistant, *Minnesota State University, Mankato* *August 2017 – May 2018*
- Interacted with Course Instructor to prepare coursework and labs for Intro to Computer Science 1&2 courses
- Held office hours to assist students in a class of 20 students with course projects and Assignments every week
- Managed students by explaining the course material during Office hours in preparation for exams

Smart Home Automation System, *Minnesota State University, Mankato* *August 2017 – May 2018*
- Designed a Home automation system by leveraging an Arduino and C programming, an iOS or Android phone for voice Commands, a 1Sheeld+ device for relaying information via Bluetooth and an LCD to display information
- Converted the Home Automation system to a real-time system by utilizing the freeRTOS framework. It improved the System efficiency by assigning higher priorities to critical commands

Project Team Finder, *Minnesota State University, Mankato* *January 2018 - May 2018*
- Planned and implemented a web application with Ruby on Rails framework by working in a team of two. It allowed a user To create profiles and search for interesting projects and to also interact with other users
- Implemented UI using MVC, HTML, CSS, SQL and Bootstrap to produce responsive web pages
- Improved efficiency in project management by applying the Agile Development methodology

GPS Controlled Autonomous Car, *Minnesota State University, Mankato* *August 2016 – May 2017*
- Accomplished autonomous driving on an RC car by using an Arduino Uno to interface with the DC Motors, Ultrasonic Sensors, accelerometer, GPS shield and the LCD Display
- Implemented algorithm to detect objects using thermal camera and used class Objects in C++ to hold Destination waypoints In Longitude and Latitude formats to conform to locations received from GPS Module

INTERESTS/ACTIVITIES/HONORS

- **OvenBot** (*PerkinsHacks 2018 Hackathon: Challenge Award Winner*) *Boston, MA*
  Software Program to ease use of smart Home Appliances by visually impaired individuals
- **WatchAsWords (***Bitcamp 2018 Hackathon) College Park, MD*
  C# program that uses Microsoft APIs to provide video transcribing services and subtitles for videos
- **National Society of Black Engineers**, Treasurer: Organized fund-raising events and participated in meetings with Department heads to gather enough funds for our yearly Conference and on-campus activities
- **Awards:** John P. and John R. Habinger Electrical Engineering Scholarship, E.F Johnson Scholarship, Rudy and Leone Salfer Engineering Scholarship at *Minnesota State University, Mankato*
- **Volunteer Experience:** Habitat for Humanity Restore, Math Tutor at MSU, Mankato, Echo Food Shelf