TEDROS TSEGAY
SOFTWARE ENGINEERING

206-883-0780
ttsega03@gmail.com

SOFTWARE SKILLS PROFILE

- Object-oriented programming (OOP) experience in Java, C#, C++, C
- Web development using JavaScript, React, HTML, and CSS
- Algorithms completed in Java, data structures in C++, Operating System in C
- Experience with ARM Assembly, Raspberry Pi, Arduino, and IOT devices
- Relational, SQL, and NoSQL database experience using MySQL and AWS RDS/DynamoDB
- Distributed computing, cloud services, virtualization, and storage using AWS.
- Cloud computing and database application development in .NET/C# and Java
- Machine learning, AI using Python, R, and Jupyter
- Team capstone built with React, AWS Cognito, S3, DynamoDB, Lambda, EC2, Drone, OpenCV python.

HARDWARE SKILLS PROFILE

- Embedded System Development: Proficient in designing, programming, and deploying embedded systems Using platforms like Arduino and Raspberry Pi. Experienced in integrating sensors and actuators to create Smart devices and IoT applications.
- Computer Architecture: Strong understanding of computer architecture principles, including CPU design Memory management, and system performance optimization techniques
- Virtualization Technologies: Skilled in using virtualization tools (e.g., VMware, VirtualBox) for creating and managing virtual environments, aiding in software development and testing

PROFESSIONAL EXPERIENCE

FIVERR | WEB DEVELOPMENT(FREELANCE)
Jun 2024 – Present

- Designed and developed custom websites for a diverse range of clients, ensuring user-friendly interfaces and responsive designs. Collaborated with clients to gather
- requirements, propose solutions, and deliver projects on time. Utilized HTML, CSS, JavaScript, and frameworks like React.js to create dynamic and interactive web pages.
- Delivered projects using agile methodologies, maintaining clear communication via Fiverr's platform and tools like Zoom and Trello.

BELLEVUE COLLEGE | SOFTWARE DEVELOPER
June 2022 – Jun 2024

- Developed a web application that utilized a drone to capture plant images. Images were stored in an AWS S3 bucket using Python for efficient data management.
- Implemented machine-learning techniques for plant disease prediction. Created an AWS EC2 instance, set up a Jupyter notebook, and developed Python scripts for training, testing, and validation.
- Employed AWS DynamoDB to store machine learning outputs, which consisted of predicted disease
- Implemented notification features to inform users about their plant's health status within the web application

MTRWESTER | IT SYSTEM SPECIALIST
September 2018 – June 2022

- Develop and maintain comprehensive documentation for IT systems operations, system configurations, and troubleshooting guide
- Provide technical support and training to end-users, ensuring the resolution of issues with high satisfaction.
- Evaluate and recommend new technology solutions to improve organizational productivity.

EDUCATION

UW Tacoma | A.S. in Computer Science
BELLEVUE COLLEGE | B.S. in Computer Science
Graduation Date – June 2024

WEBSITE
(mesteddy.github.io)

CAPSTONE
https://github.com/ttsega06/22-GardenMonitoring

LinkedIn
https://www.linkedin.com/in/tedros-tsegay-8499a4140/

LANGUAGES
Java
C++
Python
SQL

SOFTWARE
VSCode
IntelliJ
MySQL
Oracle
Robo3T
MS Excel
MS Word
AWS