

MUHAMMAD HAZIM BIN AB HALIM

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EDUCATION

B.S. in Computer Engineering, **Boston University**, MA Expected: January 2022

SKILLS

Languages: Java, C++, Python, HTML, JavaScript

Frameworks: Node.js

Databases/Tools: AWS, Git

COURSEWORK

- Smart and Connected Systems
- Signals and Systems
- Computer Organization
- Software Engineering
- Applied Algorithms and Data Structures
- Logic Design
- Software Design

WORK EXPERIENCE

Student Manager, BU West Dining Services, Sept. 2020 — Current

- Create and delegate work/break schedule for full-time Aramark employees
- Cover a work station for employees and student workers who are on break

PROJECTS

Smart Air Quality Sensor (Python, AWS)

- Worked with a team to develop an air quality detecting system which consisted of three components: sensing device, data storage and processing on cloud (AWS), mobile application.
- Tasked to pull data and process data from S3 using AWS Lambda.
- Use AWS API Gateway to create a REST API in order to send data from Lambda to a mobile application.
- Securing REST API using IAM Roles and authorization key.

Hurricane Box with Remote Access (Node.js, C, DNS)

- Built a device that is equipped with a thermistor, accelerometer, voltmeter, and Raspberry Pi camera.
- Used a Raspberry Pi Zero to host a web server (Node.js, HTML) as well as attach a Raspberry Pi Camera.
- Assigned a DDNS to the IP address of the Raspberry Pi to enable remote control and data visualization.
- Utilized UDP sockets to transmit collected data from ESP32 to Raspberry Pi.