Johnson Yang

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EDUCATION

Boston University, School of Engineering May 2024

Bachelor of Science in Computer Engineering, GPA 3.58/4.00

Relevant Coursework: Intro to Software Engineering, Algorithms, Probability/Statistics, Computer Networking, Computer Organization, Intro to Machine Learning, Intro to Operating Systems

EXPERIENCE

Boston University Engineering Department - Boston, MA October 2022 - May 2023

Lab Assistant

- Management of over 100 lab computers, ensuring their software is up to date, and guarantee they are functional and efficient for students to use in a college environment
- Worked in a team of 4 to catalog, sort, and deploy over 200 devices (Ex: oscilloscopes, waveform generators, multimeters, monitors, computers, etc)
- Effectively resolved issues with devices through diagnostics and troubleshooting
- Performed maintenance on both Windows and Linux OS computers used by over a dozen classes and hundreds of students

ClearMD - New York, NY December 2021 - January 2022

Medical Assistant

- Collect, label, and sort hundreds of vials of samples, and prepare them for shipping
- Served dozens of customers each day, through obtaining their basic vitals (ex: heart rate, blood pressure, etc) and sampling their saliva or mucus
- Provided high quality customer service to all patients
- Ran lab tests on dozens of samples weekly, differentiate between a positive and negative result, and send the results back to the patient remotely

PROJECTS

Wheelchair Lights - C++ May 2022

https://docs.google.com/document/d/1tEyKoKp4Ufn3eWt32chQlH_d_LnnWCoZRZ4BQAjOdMU

- Designing head/tail lights to assist wheelchair users in navigating the dark
- Used Arduino for hardware-software integration
- Created code to adjust the brightness of light, detect the levels of lux (brightness) around the device, manual on/off, and a “party” mode

ML dog vs cats binary classification - Matlab April 2022

- Application of various machine learning classification algorithms such as k-nearest neighbors, closest average, linear discriminant analysis, etc
- Utilized Matlab to incorporate these algorithms due to Matlab’s efficiency at computing matrices

Data Analysis Application - C++ May 2021

https://github.com/rithvik-doshi/EC327_Final_Project

- Graph a line of best-fit with various curve fits using a CSV input
- Can conduct various matrix operations, such as multiplying and transposing matrices
- Develop a user interface using the SFML library on top of C++

SKILLS

Programming: C/C++, Matlab, Verilog, Python

Other Skills: AutoCAD, Logic Design, Git, Linux/Unix, FPGA programming, PyTorch, Data Structures & Algorithms

Languages: English, Chinese