Mohammed W. Helow

Computer Science Student

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PROFILE

Highly motivated and detail-oriented Computer Science student with a strong academic foundation in programming, algorithms, and software development. Proficient in Python, Java, and C++, with a proven ability to design, implement, and optimize efficient solutions for complex problems.

EDUCATION

B.S. Computer Science with an Emphasis in Data Science,
Bellevue College
09/2021 – 06/2025
Data Structures, Data Science, Software Engineering, Cloud Computing, Database Systems, Machine Learning

Professional Experience

Order Picker, *Costco Business Center*
02/2025 – Present | Lynwood, WA
- Collaborated with team members to ensure timely and accurate order fulfillment, demonstrating attention to detail and communication skills.
- Maintained speed and accuracy in fast-paced conditions while following strict safety protocols.

Warehouse Manager, *Amazon*
12/2021 – 02/2025 | Kirkland, WA
- Leveraged Amazon's proprietary inventory management systems, gaining hands-on experience with large-scale data processing and automation that enhanced my understanding of software systems in real-world operations.
- Utilized data analytics tools to track and optimize warehouse performance, sharpening my ability to work with large datasets and improve system efficiency, a skill directly applicable to software engineering tasks such as database management and algorithm optimization.
- Developed a strong attention to detail and troubleshooting abilities while identifying and resolving issues in a fast-paced environment.

SKILLS

Programming Languages
Python, Java, C++, C#, R, SQL, HTML/CSS, JavaScript

Tools & Frameworks
Git, AWS (IAM, Lambda, S3, EventBridge, DynamoDB, CloudWatch), VS Code, IntelliJ.

PROJECTS

Malware Detection using Machine Learning and Deep Learning, *Data Science Capstone Project – Bellevue College*
- Developed and implemented multiple models (Random Forest, Logistic Regression, CNN) to predict malware infections using Microsoft Malware Prediction dataset.
- Preprocessed high-dimensional data, handled missing values, and applied PCA for dimensionality reduction.
- Engineered features based on domain knowledge, reduced multicollinearity using correlation heatmaps.
- Visualized model performance and comparison metrics (accuracy, precision, recall) using Matplotlib and Seaborn.

Graphing Calculator Application
- Developed a graphing calculator in C# using the WPF framework and ScottPlot library, enabling users to plot mathematical functions and perform advanced calculations.
- Key features include customizable graph rendering, interactive zooming and panning, and advanced mathematical operations such as integrals, derivatives, and intercepts calculated using the Newton-Raphson method.
- Implemented dynamic input validation with Python integration and regular expressions to ensure accurate parsing and error handling.
- Designed a responsive and adaptable UI with hover effects and real-time updates, showcasing expertise in combining user experience design with robust computational logic.

Built and programmed a hand-wired keyboard
- Designed and constructed a fully functional, hand-wired 3D-printed mechanical keyboard.
- This project helped me understand the hardware and software aspects of keyboard design, circuitry, and human-computer interaction.

Traffic Violation DMV System
- System that helps cities use cameras (installed at roads intersections) to catch and bill drivers that commit traffic violations at traffic lights then sends those traffic violations to the registered owner of the vehicle's email.
- Created a solution to a problem that requires the use of a Machine Learning service capable of extracting text embedded in pictures. The solution combines many services on the AWS platform covered during the course: S3, Lambda, Queues, SNS, EventBridge, and Rekognition.