

Hassan Syed

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Education

Whitworth University | B.S. in Computer Science, B.S. in Math in Data Science | May 2026 | GPA: 3.64

Relevant Coursework: Advanced Algorithms, Applications Development, Data Science, Database Management.

Experience

Informational Technology and Media Services Help Desk Attendant

September 2023 – Present

Whitworth University IT Dept

Spokane, WA

- Delivered expert technical assistance to over 1900 students, faculty, and staff on campus, addressing issues with school computers, software applications, printers, and IT equipment, resulting in a 50% decrease in unresolved tickets.
- Helped users set up and configure hardware and software, connecting to the campus network, and troubleshooting connectivity issues.
- Trained four junior staff members on effective security protocols and user login management, resulting in 80% reduction in compromised passwords and enhancing overall workplace safety metrics.

Software Engineer Intern

July 2024 – September 2024

Software Stories

Remote

- Conducted comprehensive research of SaaS trends to identify high-demand software solutions and effectively communicated the findings to the startup's lead software engineers, with a focus on attracting new customers by 100%.
- Collaborated with marketing team to analyze research findings and present valuable insights, resulting in adjustments to product advertising strategies.
- Performed web scraping for clients leveraging BeautifulSoup and Pandas libraries to gather and format requested data, ensuring 97% data usability.

SAR Testing Engineer Intern

May 2024 – August 2024 | May 2023 – August 2023

UL Solutions

Fremont, CA

- Performed Specific Absorption Rate (SAR) Testing with lab equipment, employing Python 3 scripts to control device power levels and assess radio frequency emissions for compliance with safety standards.
- Efficiently collaborated with teams of interns to collect and manage data using tools like Microsoft Excel, maintaining 95% accuracy, while skillfully managing data and generating comprehensive reports to offer client feedback on device safety levels.
- Implemented and explored wireless technologies including 5G, LTE and Bluetooth to assess their safety and alignment with established industry norms.

Projects

Food Pantry Check-In System | Flutter, Dart, SQL, Python, Flask

January 2025

- Developed a food pantry mobile application using Flutter, featuring a catalog of over 100 items and re-stocking system for the pantry employees integrated with a SQL database via Flask library in Python for convenient data retrieval and updates.
- Integrated University's SSO authentication system into the application's login page, ensuring access for verified students and staff from Whitworth.

Closest Friend Finder | Python, SciPy, IPInfo

December 2024

- Programmed a closest point finder algorithm with the worst-case time complexity of $O(n)$ using Euclidean distance calculations and Voronoi diagram for proximity visualization along with integration of campus map as a background and dynamically updating friend locations through interpolation for a realistic simulation.
- Utilized IPInfo API to fetch GPS coordinates, simulating geolocation scenarios based in Spokane while employing SciPy for plotting and visualizing data, incorporating randomized circular motion for dynamic friend movements with average location change of 56% per iteration.

User Controlled Maze Game | C++, OOP, Chrono

April 2023

- Collaborated with a teammate to design and develop an interactive 20 x 20 maze-solving game with an engaging user interface, challenging players to navigate dynamically generated mazes to be solved.
- Utilized maze-solving algorithms, including BFS and Dijkstra's, to create a challenging yet solvable gaming experience, while integrating the Chrono library for real-time timers and displaying color-coded solutions with elapsed time upon completion.

Skills

Languages and Frameworks: AVR, C++, Dart, Python, SQL, Flutter, Flask, HTML, CSS, JavaScript

Software: CDASY6, Microsoft 365, MySQL, Arduino, SOLIDWORKS, Android Studio, Scrapy, Pandas

Others: Multilingual (English, Sindhi, Urdu, Hindi), Taekwondo (Black-Belt), Collaboration, Persistence