

# Hassan Syed

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## Education

**Whitworth University** | Spokane, WA

*Bachelor of Science in Computer Science, Bachelor of Science in Math in Data Science* | Current GPA: 3.71 | Expected Graduation in May 2026

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Web Development, Database Management.

## Skills

- **Languages and Frameworks:** C++, Python, Django, Flask, HTML, CSS, JavaScript, SQL, Flutter, Dart

- **Software:** Scrapy, Pandas, Docker, MySQL, Arduino, SOLIDWORKS, Android Studio

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

## Experience

### Software Engineer Intern

**August 2024 – Present**

*TechData Warriors*

*Remote*

- Developed and maintained company's webpage, using Python and Django, creating a user-friendly platform for 45+ clients to seek services.
- Performed web scraping for clients leveraging Scrapy and Pandas libraries to gather and format data, ensuring 100% data usability.
- Utilized PostgreSQL for the webpage's database and securely storing client data, allowing efficient access and retrieval of data.

### 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 8 fellow interns to collect and analyze data, maintaining 100% 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.

### Informational Technology and Media Services Help Desk Attendant

**September 2023 – Present**

*Whitworth University IT Dept*

*Spokane, WA*

- Provided 10 hours of weekly technical assistance to students, faculty, and staff on campus, addressing issues with school computers, software applications (e.g., Duo Mobile, Blackboard), printers, and IT equipment.
- Helped users set up and configure hardware and software, connecting to the campus network, and troubleshooting connectivity issues.

## Projects

### Food Delivery Mobile App

**Flutter, Dart, SQL, Python, Flask**

**May 2024**

- Cooperated with a colleague to develop a food ordering mobile application using Flutter for the frontend, featuring over 100 menu items and an order tracking system integrated with a SQL database via Flask library in Python.
- Leveraged Dart to employ object-oriented programming principles such as encapsulation, abstraction, and modularity to create classes for login details, menu items, recipe ingredients, and order details, ensuring maintainable and scalable code architecture.

### User Controlled Maze Game

**C++, OOP, Chrono**

**May 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.

## Extracurriculars

### Associate of Microcontrollers Group of CubeSat Project

**October 2022 – Present**

*Whitworth University Physics Dept*

*Spokane, WA*

- Collaborated with six peers and worked alongside Physics professors to improve project efficiency by critically analyzing material selection and developing microcontrollers using languages such as C++, contributing to the launch preparations of a satellite program.
- Applied computer hardware expertise to develop and manage the satellite's communication system using Arduino for sensing and control.

### WhitCode Coding Competition

*Whitworth University Computer Science Dept*

**March 2023**

- Solved Algorithmic problems within a time limit and achieved 2<sup>nd</sup> position among participants, showcasing strong problem-solving skills and proficiency in C++.
- Collaborated with a teammate demonstrating effective teamwork and solved 10 challenging problems involving arrangement of data.