MATTHEW ALLERIA ROWAN

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WORK EXPERIENCE

IT Service Representative   *January 2016 - June 2016*
Cascadia College, Bothell

· Vastly improved the efficiency of inventory management and loan services by digitizing the system and re-cataloguing the device inventory for staff/faculty/students.
· Maintained a priority work order platform to ensure clear and concise communication between staff/faculty and IT support technicians.
· Performed maintenance, reformatting, installation of operating systems, and updating applications on devices on remote clustered network computers.

TECHNICAL STRENGTHS

Languages	C, Java, Python, C++, JavaScript, SQL, $C^{\#}$, xml, bash
Analysis	Python, matplotlib, Pandas, IBM SPSS, MATLAB, R
Technologies	LaTeX, Anaconda, GNU Make, Godot, GDB, Visual Studio, SQL Server, React

EDUCATION

Sphere, Inc. Live Cohort   *October 2022*
Techniques and Frameworks for Data Exploration

Western Washington University, Bellingham   *June 2017 - September 2021*
Bachelor of Science in Computer Science   *June 2021*
Minor in Sociology   *September 2021*

PROJECTS

Minimap: Active Shooter Response System
Contributed to software design and simulation project as part of a diverse team of software engineers utilizing the Unity 3D real-time development platform by applying knowledge of Object-Oriented Design (OOD) and User Experience / User Interface (UX/UI) design. The team designed and implemented a simulation of a school environment and tested multiple iterations of an Automated Response System reacting to an active shooter event. The system was designed to track the event in real-time and transmit data such as maps of the campus, effected areas, and access/egress points to emergency response personnel.

Western Washington University Conferencing
Worked as part of a team of software engineers to build a full-stack implementation of a web-based video and audio conferencing software for which I designed and implemented the back-end by utilizing my knowledge of databases, data structures, Object-Oriented Design, XML, HTML, and SQL query building. The application was intended for use as a digital classroom for Western Washington University faculty and staff.

Pragmatic Test-Driven Development in $C^{\#}$ and .Net
Independently worked through the projects and principles in the book of the above title by Adam Tibi, adapting code and building multiple applications utilizing TDD in Visual Studio and .NET. The project focuses on developing applications with dependency injection (DI) and advanced unit testing techniques. The related files on my GitHub.