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| **SAIMA KHATOON** |

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| Windsor, ON | |
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**Summary**

* Master of Applied Computing (AI Stream) candidate at the University of Windsor, graduating in December 2025, with 5+ years of professional experience in software development and system-level programming
* Proficient in C/C++, with deep knowledge of object-oriented programming, multithreading, socket programming, and debugging in Linux and Windows environments
* Experienced in full software development lifecycle (SDLC) using both Agile and Waterfall methodologies, version control systems (Git, SVN), and source code analysis tools like SonarQube
* Demonstrated ability to deliver efficient, and testable code; comfortable with STL, Boost, and producing high-quality code aligned with industry best practices
* Strong analytical and communication skills, with record of collaborating with cross-functional teams and resolving complex technical issues effectively

**Technical Skills**

* Programming Languages:  C, C++, Python
* Programming Concepts: OOP, Multithreading, Socket Programming, STL, Algorithms & Data Structures
* Tools: Git, SonarQube, Doxygen, SVN, Jira
* Web & Scripting: Shell Scripting
* Databases & Query Languages: SQL, PL/SQL
* Platforms: Linux, Windows, Unisys MCP & OS2200 (proprietary systems)
* Development Methodologies: Agile, Waterfall

**Education**

**Master of Applied Computing Artificial Intelligence Stream** Sep 2024 - Present

University of Windsor, Windsor, Canada

* **Expected Graduation:** December 2025
* Available to start immediately upon completion of Master’s degree

**Post Graduate Diploma in Advanced Computing** Aug 2017 - Feb 2018

Centre for Development of Advanced Computing, Bengaluru, India

**Bachelor of Technology Computer Science** Aug 2012 - Aug 2016

Vinoba Bhave University, Hazaribagh, India

**Work Experience**

**WCS Developer II** Feb 2024 - Aug 2024

Mouser Electronics, Bengaluru, India

**Technologies: C, C++, Shell scripting, SonarQube**

* Developed and migrated backend tools (CRT, RDT, MX6) from AIX to Linux, improving system compatibility
* Engaged in backend support and troubleshooting for warehouse control system software, ensuring smooth operational flow and timely resolution of system issues

**Designation: Engineer** Jul 2020 - Dec 2022

Unisys, Bengaluru, India

**Technologies: C, C++, OOPS, STL, Socket programming, SQL**

* Developed CS on Linux for AIS-6.0, created sample C++ socket applications, integrated NTLM protocol, and packaged RPMs for deployment , leveraging strong backend development and SQL/database management skills
* Managed sprint efforts and facilitated Agile ceremonies as Scrum Master, driving team collaboration, ensuring timely delivery, and coordinating tasks to meet project goals
* Authored technical documentation, including CS Linux Help files (Doxygen) and developer guides, and updated the technical debt wiki for identifying areas for future enhancements
* Facilitated knowledge-sharing sessions on SVN branching, NTLM authentication, and error handling, boosting team productivity and reducing onboarding time for new developers by 20%
* Applied STL containers (e.g., vectors, maps) and algorithms to improve data manipulation and storage efficiency, resulting in better tool scalability and reduced resource consumption
* Led support and bug fixing efforts, conducting developer testing and resolved critical and blocker-level issues in SonarQube analysis for CPI and AISCallOut projects, restructuring code quality and reducing defects by 30%.

**Project Engineer** Mar 2018 - Mar 2020

Centre for Development of Advanced Computing (CDAC), Bengaluru, India

**Technologies: C, C++, STL, Boost, Shell Scripting, GCC**

* Enhanced auto-par tool of the ROSE compiler by adding new OpenMP clauses, improving code readability and maintainability in the translated output
* Built and fine-tuned shell scripts for efficient compilation and execution workflows
* Installed CAPC software on PARAM Shivay (Supercomputer), NSM-SSL, and Hybrid02 machines, and upgraded C2CL by porting it from ROSE version 0.9.5a to 0.9.10.54, ensuring compatibility with the latest platform
* Constructed array invocation, file generation, kernel generation, OpenCL boilerplate API creation, variable mapping, and dynamic memory allocation in Linux
* Identified compute-intensive regions and transformed into OpenCL kernels for parallel execution
* Leveraged Pluto and PolyOpt tools to optimize computational processes and researched automatic parallelization techniques and polyhedral model concepts

**Software Programmer** Sep 2016 - Mar 2017

Napasoft, Jamshedpur, India

**Technologies: C++, VC++, OpenCV, MFC, SQL**

* Accessed image data from cameras and stored it in a matrix (OpenCV) for the Hole Detection System
* Performed pixel recognition and real-time image manipulation to solve the image flip problem of cameras
* Designed and implemented MFC-based solutions for streamlined storage of coil data and related information, elevating data management and retrieval

**Awards And Accomplishments**

* Certified Azure Fundamentals Specialist by Microsoft
* Received the "Good Job" Award for outstanding contributions to AIS project at Unisys