SAIMA KHATOON

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SUMMARY

- Master of Applied Computing (AI Stream) candidate at the University of Windsor 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 environments
- Experienced in using Git for version control and working in Agile/Scrum environments, contributing to team-driven development and code quality improvement
- Quick learner with excellent communication skills and a collaborative mindset, eager to apply data-driven solutions in real-world settings

TECHNICAL SKILLS

- Programming Languages: C/C++, Python
- Programming Concepts: Multithreading, IPC, System Programming, Socket Programming, Object-Oriented Programming (OOP), Design Patterns, Algorithms & Data Structures
- Tools & Technologies: Git, SonarQube, SonarLint, Doxygen, SVN, Jira, Agent-Based Modelling, Machine Learning, AnyLogic, OpenCV, Wireshark
- Web & Scripting: HTML, CSS, JavaScript, Shell Scripting
- Database Management: MySQL, PostgreSQL, Relational Databases
- Platforms: Linux (5+ yrs), Windows, Unisys MCP & OS2200 (proprietary systems)
- Development Methodologies: Agile, Scrum

EDUCATION

Master of Applied Computing Artificial Intelligence Stream Sep 2024 - Present
University of Windsor, Windsor, Canada
- Final semester requires a 4- or 8-month internship starting in September 2025

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
- Updated and migrated CRT (Warehouse Control System Utility) from AIX to Linux, enhancing system compatibility

- Segregated C files based on functions and warehouse operations supported (e.g., receiving, stocking, pulling, sorting, consolidation, and shipping)
- Ensured clarity and easy traceability of files for team members by assigning meaningful labels reflecting both the operation and file functionality

Designation: Engineer Jul 2020 - Dec 2022

Unisys, Bengaluru, India

- Developed Connectivity Services (CS) on Linux for AIS-6.0 (Application Integration Services), created sample C++ socket applications, integrated the NTLM protocol, and packaged RPMs for deployment
- Supervised 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%
- 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

- Created backend components of a web interface for the CAPC (CDAC auto-parallelizing compiler), used to convert C programs into OpenCL/OpenMP/MPI
- Integrated compiler tools (C2CL and C2OMP) with the frontend to automate code translation workflows
- Constructed array invocation, file generation, kernel generation, OpenCL boilerplate API creation, variable mapping, and dynamic memory allocation in Linux
- Built and fine-tuned shell scripts for efficient compilation and execution workflows
- Enhanced auto-par tool of the ROSE compiler by adding new OpenMP clauses, improving code readability and maintainability in the translated output
- 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

Software Programmer Sep 2016 - Mar 2017

Napasoft, Jamshedpur, India

- 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