Shazil Razzaq

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EDUCATION

University of Waterloo **Waterloo, ON**
Computer Engineering (Honors) *September 2019 – Present*

Courses: *Systems Programming and Concurrency, Distributed Systems, Real-Time Operating Systems, Computer Networks, Algorithms and Data Structures, Computer Security, Computer Architecture, Database Systems.*

SKILLS

Languages: C, C++, C#, Golang, Python, Java, Kotlin, SQL, JavaScript, HTML, CSS, Verilog, RISC-V.
Tools: React, Angular, Node.js, Material UI, Bootstrap, GoogleTest, Git, MongoDB, MySQL, Docker, Unix/Linux.
AI-900 Certification: Machine Learning, Computer Vision and Natural Language Processing Experience.

Strong problem-solving, interpersonal, learning, analytical, adaptability, time management, and organizational skills exemplified through various extra-curriculars, accolades, and volunteering experiences, notably as a soccer coach.

EXPERIENCE

Full-Stack Developer **January 2023 – April 2023**
D2L *Waterloo, ON, Canada*
- Spearheaded development for the next generation of assignment and quizzing platforms by leveraging REST APIs, Lit Web Components, React, Node.js, C#, .NET, AWS, and SQL; reducing load times by 15%.
- Collaborated with the UI team to craft 3 innovative teacher interfaces, which received positive customer reviews.
- Implemented the ability for multiple evaluators to grade a student and unified the evaluation experience for teachers, resulting in 5 new clients.

Software Infrastructure Developer **January 2022 – April 2022**
Ford *Oakville, ON, Canada*
- Architected new features and 20 bug fixes for networking, security, IPC, and power management platforms using C++, Golang, GNU Debugger, DDD, and Valgrind.
- Created unit tests using the GoogleTest Suite framework (Google Testing and Mocking).
- Explored ways to deliver efficient code by utilizing knowledge of design patterns, data structures, code optimization techniques, and concurrency techniques including multi-threading and multi-processing.

Android Developer **May 2021 – August 2021**
OpenText *Waterloo, ON, Canada*
- Architected clean, clear, efficient, well-tested and maintainable Kotlin and Java code using Android studio.
- Implemented 5 UI improvements and features, and resolved bugs in the OpenText Core Share app.
- Developed features with the OpenText API, used inspector tools to debug API calls and Firebase to debug events.

Data Analyst **September 2020 – December 2020**
Loblaw *Mississauga, ON, Canada*
- Designed Python scripts using the pandas library to aggregate and analyze data; saving the team 3 hours a day.

Application Developer **February 2020 – May 2020**
Enterprise eSolutions *Mississauga, ON, Canada*
- Authored an email follow-up program with C++, libcurl, and web integration; reducing acquisition costs by 20%.

PROJECTS

TaskCatalyst | *React, Python, AWS, PostgreSQL, REST APIs, UX/UI Design, Natural Language Processing*
Movie Mood | *Java, REST APIs, SQL, Data Aggregation Techniques, UX/UI Design, Android*
Multi-Threaded Web-Crawler | *C, Multi-Threading (Semaphores, Mutexes), cURL, libxml2, HTTP*
Real-Time Operating System (RTOS) | *C, Inter-Process Communication, Memory Management, Task Scheduling*
RISC-V, 5-Stage Pipelined Processor | *RISC-V Assembly, Verilog, C, Digital Hardware Design, Xilinx Vivado*
Online Image Concatenator | *C, Multi-Processing (Shared memory), Multi-Threading (Semaphores, Mutexes), libcurl*