# Shazil Razzaq

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## EDUCATION

**University of Waterloo**                                                                                   **Waterloo, ON**
**Computer Engineering (Honors)**                                                        *September 2019 – April 2024*
**Graduated with Distinction**
**Courses:** *Algorithms and Data Structures, Computer Architecture, Machine Learning, Distributed Computing,*
*Computer Security, Cryptography and System Security, Computer Networks, Database Systems.*

## SKILLS

**Languages:** JavaScript, TypeScript, Java, Scala, Python, C++, C, C#, Golang, SQL.
**Tools**: React, React Native, Express, Apache Suite, AWS, Azure, GCP, Docker, Kubernetes, gRPC, MySQL, Cassandra.

Strong problem solving, interpersonal, independent, team, analytical, adaptability, time management, and organizational skills demonstrated through various extra-curriculars, awards, and volunteering such as being a soccer coach.

## EXPERIENCE

**Software Developer**                                                                              **July 2024 – Present**
**D2L**                                                                                                  *Kitchener, ON, Canada*
- Rejoined the team to continue contributing to the enhancement of teacher interfaces and grading functionalities using TypeScript, C#, .NET, AWS, REST APIs, SQL, Lit Web Components, and data-driven insights.
- Leading the development of an AI-driven project to incorporate a multi-modal chatbot, importance-based timestamp generation, and summarization tools into D2L's media player using Python and AWS Bedrock.
- Leveraging knowledge from past projects and courses to assist in design and architectural decisions, focusing on optimizing system performance and scalability as part of larger team initiatives.

**Full-Stack Engineer Intern**                                                      **September 2023 – December 2023**
**QRunch**                                                                                            *Mississauga, ON, Canada*
- Led development for a cross-platform restaurant rewards system on the iOS, Android and the Web by utilizing expertise in React, React Native, Node.js, REST API development, GCP; onboarding 20 clients.
- Employed Jest and Mocha unit testing frameworks for reliability and robustness.

**Software Developer Intern**                                                          **January 2023 – April 2023**
**D2L**                                                                                                  *Kitchener, ON, Canada*
- Spearheaded development for the next generation of assignment and quizzing platforms by leveraging TypeScript, C#, .NET, REST APIs, SQL, and Lit Web Components; reducing load times by 15%.
- Collaborated with the UI team to craft 3 innovative teacher interfaces and implemented the ability for multiple evaluators to grade students, both of which received positive customer reviews.

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

**Android Developer Intern**                                                           **May 2021 – August 2021**
**OpenText**                                                                                           *Waterloo, ON, Canada*
- Engineered clean, clear, efficient, well-tested and maintainable Java and Kotlin code using Android Studio.
- Implemented 25 UI improvements and features and resolved 80 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.

## PROJECTS

**TaskCatalyst - AI Project Management System** | *Python, JavaScript, AWS, Scikit-Learn, GPT API, OAuth 2.0*
**Mental Illness Multi-Classification Model** | *Python, NumPy, Scikit-Learn, Pandas, Jupyter Notebook*
**Real-Time Operating System (RTOS)** | *C++, Inter-process Communication, Memory Management, Scheduling*