

Syed Kazmi

Toronto, ON · syedk.business@gmail.com · (647) 451-5558 · github.com/syedk04 · linkedin.com/in/syed-kazmi04

EDUCATION

Bachelor of Computer Engineering, Software Engineering Option

Expected April 2027

Toronto Metropolitan University, Toronto, ON

Academic achievement: Dean's List

Relevant coursework: Software Systems, Object-Oriented Analysis and Design, Software Requirements Analysis, Software Design and Architecture, Algorithms and Data Structures, Advanced Algorithms, Operating Systems, Computer Organization and Architecture, Database Systems, Digital Systems, Microprocessor Systems

TECHNICAL SKILLS

LANGUAGES	JavaScript, TypeScript, C#, SQL, Java, Python, C/C++, PHP, HTML/CSS, Assembly, VHDL, VBA, MATLAB, R
FRAMEWORKS	Vue 3, Vue Router, Pinia, vue-i18n, .NET 8, EF Core, Axios, JavaFX, Drupal CMS, Bootstrap, GCDS, React, Django, Flask, JUnit 5, OpenCV, NumPy, Pandas
CLOUD AND DEVOPS	Azure Functions, Azure AI Search (OData), Azure DevOps CI/CD, Docker, Kubernetes, SQL Server, PostgreSQL, MySQL, GCP, Firebase, Git
TOOLS AND TESTING	xUnit, SonarQube, OpenAPI, Visual Studio, VS Code, Oracle 11g, SceneBuilder, NetBeans, Apache Tomcat, Quartus II, Power BI, Alteryx, JIRA/Confluence, Linux

EXPERIENCE

IT Specialist

May 2025 to August 2026

Environment and Climate Change Canada (ECCC), Toronto, ON

- Developed full stack features for the CEPA Registry Search platform, supporting 100,000+ searchable public records spanning substances, instruments, documents, regulations, public consultations, permits, and codes of practice.
- Built and debugged 5 Vue public search pages, implementing reusable search templates, result cards, filters, pagination, autocomplete, and bilingual routes using TypeScript, Pinia, Vue Router, vue-i18n, and Axios.
- Implemented .NET 8 Azure Function APIs in C# for item retrieval, publishing workflows, relationship expansion, and Azure AI Search indexing, using EF Core, SQL Server, and OpenAPI with Docker based local development.
- Contributed to large scale CEPA data migration and publishing pipelines across SQL Server schemas, stored procedures, item/revision/publish-event tables, and DataHub imported datasets feeding the Azure Search index.
- Resolved cross application defects spanning the Vue public site, Drupal WxT admin site, Azure Function APIs, SQL Server, and the Azure Search emulator, improving search indexing, routing, and template rendering reliability.
- Strengthened release quality through xUnit integration tests, Azure DevOps CI pipelines, and SonarQube analysis within an Agile sprint delivery cycle.

Customer Experience Consultant, Project Lead

June 2026

Moms Against Racism Canada, Remote (via Riipen Labs)

- Led a 3 week customer experience consulting engagement for a federally registered nonprofit, independently driving research and the final recommendation as Project Lead.
- Diagnosed a member engagement breakdown using signup, social media, and Q and A data, identifying that 144 signups collapsed to single digits within two months due to a gap in post approval onboarding rather than acquisition.
- Recommended a BuddyBoss based onboarding redesign (automated subgroup routing, a 3 email welcome sequence, and a clear member starting point) delivered via a 12 slide report to the founder.

Robotics Research Assistant

September 2024 to May 2025

N-CART Robots, Toronto, ON

- Collaborated with 4th year Computer Science and Engineering students on hardware integration, software development, and systems testing across 4 robotics platforms (Vanguard MK2, Matilda, Nepwak, Pedsco).
- Applied embedded systems, control theory, and autonomous systems concepts under faculty supervision, contributing to measurable improvements in each robot operational capability.
- Designed, tested, and troubleshooted sensor guided navigation algorithms and real time motor control systems, accelerating development across all active robotics platforms.

Movie-Buddy Web Application

April 2025

Java, MySQL, HTML/CSS, Apache Tomcat, Docker, Kubernetes, GCP

- Collaborated in a 2 person team to design and develop a movie centric social media web application following microservices architecture and RESTful API design principles.
- Designed and implemented 4+ independent microservices for user authentication and movie CRUD operations, exposing functionality through REST APIs and enabling inter service communication via KubeMQ.
- Containerized each microservice using Docker and deployed the system on Google Cloud Platform with Kubernetes for orchestration, scalability, and service management.

University Online Student Registration System

November 2024

SQL, Oracle 11g, Unix Shell

- Designed and implemented a university course registration database in Oracle 11g SQL, normalizing tables to 3NF and BCNF to reduce redundancy and optimize query performance.
- Built Unix shell scripts with text based menus to execute complex SQL queries for enrollment, course availability, and instructor assignment management.
- Enforced data integrity through primary and foreign key constraints and validation logic, preventing duplicate registrations and invalid course assignments.

Robot Navigation System

November 2024

Assembly Language, CodeWarrior IDE, HCS12

- Programmed an autonomous robot navigation system on the HCS12 microcontroller using Assembly Language, enabling maze solving with self learning from incorrect paths.
- Implemented sensor guided intersection detection and real time motor control feedback loops, improving maze traversal accuracy and adaptability to dynamic obstacles.
- Debugged low level control routines using CodeWarrior IDE simulation and hardware test runs to validate consistent maze solving behaviour.

Bank Account Application GUI

March 2024

Java, JavaFX, SceneBuilder, Apache NetBeans

- Built an object oriented banking GUI in JavaFX supporting manager and customer roles, including account creation, deposits, withdrawals, purchases, and balance inquiries.
- Modeled system requirements with UML use case and class diagrams prior to implementation, clarifying actors, transaction flows, and reusable classes.
- Structured account and transaction classes using encapsulation and inheritance to improve code reusability and maintainability.

INTERESTS

Hackathons, weightlifting, basketball, volleyball, soccer, badminton, technical documentation, public sector digital services.