

# Arshia Zakeri Rad

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Driven software engineer with a strong background in development, DevOps, and leadership. Pursuing Machine Learning certifications. Passionate about mathematics, with two bronze medals from WMC and TIMO Olympics.

## TECHNICAL SKILLS

**Languages:** C, C++, Java, JavaScript, TypeScript, C#, Python, HTML, CSS, Sass, SQL

**Frameworks & Libraries:** NextJs, NodeJS, React, React Native, Flutter, .NET Core, Express, jQuery, Angular

**Systems & Databases:** PostgreSQL, MongoDB, Firebase, Jira, Git

**Soft Skills:** Entrepreneurship, Interpersonal Skills, Leadership, Critical Thinking, Time Management, Problem-solving

## EDUCATION

**Toronto Metropolitan University(formerly Ryerson)**

**September 2023 - April 2027**

*Bachelor's, Computer Science - Mathematics minor*

*GPA(4.13/4.33)*

- Computer Science 1 & 2, Graph Theory, Data Structures

## EXPERIENCE

**Lead Software Engineer | Versall.ca**

**July 2023 - Present**

*Versall Inc.*

*Toronto, ON*

- **Leading** a software agency renowned for its expertise in creating **interactive** and **scalable** solutions, collaborating with a network of over **10** companies.
- **Collaborated**, recruited and worked with a team of **12** developers/designers to develop front-end and back-end applications using **Next.js** and **Express.js** frameworks.
- **Enhanced** back-end efficiency by reducing the number of server requests by **35%**, optimizing overall system performance.

**DevOps Intern | Devopssolutions.ca**

**August 2022 - March 2023**

*DevOps Solutions Inc.*

*Toronto, ON*

- Played a key role in implementing and maintaining **CI/CD pipelines**, automating software build, database horizontal scaling, test, and deployment processes, resulting in a **20%** improvement in overall **efficiency**.
- Supported the configuration and management of cloud infrastructure using tools like **AWS** and **Azure**, achieving **30% scalability** and ensuring **99.9% high availability** of applications.
- **Collaborated** with **cross-functional** teams to troubleshoot and resolve issues related to infrastructure, networking, and deployments, contributing to a **15%** reduction in system downtime and ensuring the smooth operation of software systems.

## PERSONAL PROJECTS

**MyCMS** | NextJs, React, ExpressJs, MongoDB, RSA Encryption, Docker, JavaScript, Sass

- **Developed** a versatile Content Management System (CMS) using **Node.js** and **React.js/Next.js**, enabling **efficient creation, management, and publication** of web content.
- Improved **customer acquisition** by **23%**, and resulted in generating **\$10,000+** annually.
- Orchestrated integration of **Caddy** web server as a reverse proxy with **HTTPS support**, ensuring **secure** and **reliable access** to the CMS platform.

**P5.cpp** | SFML, C++, OpenGL

- **Developing** P5.cpp library with more than 100 methods same as the p5.js processing library
- **Integrating** camera perspectives and **3D rendering** with **OpenGL** along with simple mathematical methods
- **Optimizing** rendering system with **concurrent computing**

**UofT NSBE Hacks's** | **24 Hours** | NextJs, PostgreSQL, JavaScript, Prisma | [skillsync-three.vercel.app](https://skillsync-three.vercel.app)

- **Secured 1st place in the Black Founders Network Challenge**, distinguishing Skill Sync as a leading platform for enhancing community engagement through volunteer matching, utilizing advanced Cohere AI technology for personalized opportunity searches.
- **Achieved top 5 ranking at Cohere's competition and clinched 1st place at GoDaddy's challenge**, highlighting Skill Sync's innovative use of AI for connecting volunteers with skill-enhancing opportunities and its exceptional capability in creating appealing volunteer role descriptions for organizations.

## CERTIFICATIONS

**Supervised Machine Learning: Regression and Classification**

**DeepLearning.AI, Stanford University**