

# Yazdan Zinati

SOFTWARE ENGINEER

☎ +1 514 848 1176 | ✉ contact@yazdan.me | 🏠 yazdanzinati.com | 🌐 yazdanz | in yazdan-zinati

## Education

### McGill University

Montreal, Canada

HONOURS SOFTWARE/ELECTRICAL ENGINEERING, CGPA: 3.8/4.0

Expected graduation: Dec.2022

- **Key Coursework:** Algorithms and Data Structures, Computer Organization, Design Principles and Methods, Model-Based Programming, Database Systems, Digital Logic, Applied Machine Learning, Deep Learning, Machine Learning in Network Biology, Communication Systems and Networks

## Skills

- Languages** Go, Python, Java, C#, Bash, PowerShell, C, C++, SQL, VHDL, MATLAB, HTML, CSS, French, English, Persian
- Technologies** Docker, Kubernetes, Linux, Azure, AWS, VMware, Git, GitHub
- Databases** Experienced with Relational and non-Relational Databases: MySQL, SQLite, MongoDB

## Experience

### McGill University Tutorial Services

Montreal, Canada

SOFTWARE ENGINEERING TUTOR

Jan 2021 - Present

- Tutored undergraduate students at McGill University in the following undergraduate software courses: Algorithms and Data Structures, Introduction to Computer Science, Introduction to Software Development.

### Genetec

Montreal, Canada

SOFTWARE ENGINEER INTERN

May 2021 - Sep 2021

- Developed features, scripts, and bug fixes in the context of a tool used to install, deploy, and configure a virtual Kubernetes-based platform in Go.
- Implemented DevOps pipelines in Azure to automate and significantly unify builds, tests, and releases of the software for multiple hypervisors, including VMware and Hyper-V.
- Optimized the deployment and test time of the tool by more than 40% by introducing concurrency to the product.
- Used Tools and Technologies: Go, Kubernetes, Docker, Bash, PowerShell, K3s, k3OS, Linux, VMware, Hyper-V, Azure

### Genetec

Montreal, Canada

SOFTWARE DEVELOPER INTERN

May 2020 - Sep 2020

- Designed and developed an MVC application along with a scalable RESTful Web API in ASP.NET with a MySQL database able to execute a large number of predefined and custom tasks on a set of numerous remote software systems with high throughput using asynchronous programming.
- Collaborated with the System Test team in developing automated setup deployment tools and scripts using .NET and C#, PowerShell, and GraphQL.
- Constructed test plans and developed sanity tests in C# and integrated them in test pipelines.
- Used Tools and Technologies: .NET Core, ASP.NET, C#, PowerShell, MySQL, GraphQL

## Projects

### ReveRsi

- Android version of the Reversi (Othello) game with a modern UI written in Java using the Android SDK.
- An Intelligent agent was developed using algorithms such as the minimax algorithm optimized with alpha-beta pruning, transposition tables, multiprocessing, and opening moves backed with strong heuristics.

### Search and Rescue Robot

- Autonomous Robot performing a search and rescue operation on a stranded vehicle inside of a closed area while being able to localize, navigate and avoid randomly placed obstacles.
- The Robot's software was written in Java, using the LEJOS library that provides support for Mindstorm EV3 hardware.

### Autonomous 2D Soccer Simulation

- Fully autonomous multi-agent soccer team with an Artificial Intelligence in C++ to play soccer against other teams in the international RoboCup Simulation League. Best sequence of action in the game was determined based on signals received by virtual sensors.