

Alexys Dussier

ENSEEIH, Graduate Engineering Student, Programmer, Game Designer LVL 1

"A good idea is something that does not solve just one problem, but rather can solve multiple problems at once." Shigeru Miyamoto

Contact

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Languages

French: native
English: bilingual
Japanese: beginner

Hobbies

Magic The Gathering
Competitive play for 10 years
Tournament each week

Six beat Rock
Each week for a year

Go
Creation and management of a
club at high school

Favorite Games
StarCraft 2
rank: Master
HearthStone
rank: Legend
Ori and the Blind Forest
Spelunky

Soft Skills

Critical thinker
Autonomous
Ambitious
Empathetic
Pragmatic

About Me

I am looking for a job as Research Engineer in Artificial Intelligence.
I am an IT graduate student engineer passionate about designing and creating games and emergent AI algorithms. My dream is to participate in the research for the first General AI.

Education

- 2018 - 2019 **DDJV** Degree in Video Game Development Double Degree in Canada
University de Sherbrooke in Montréal
- 2016 - 2018 **INP-ENSEEIH** Computer Science & Applied Mathematics Engineering School
National Polytechnic School of Electrotechnic, Electronics, Computing, Hydraulics and Telecommunications
- 2014 - 2016 **Pierre de Fermat** Mathematics & Physics Preparatory Course
Majoring in Computer Science
- 2011 - 2014 **Toulouse Lautrec** Scientific Diploma Secondary School
With Honors

School Projects

- Winter 2019 **3D Third Person Game** TPS asymmetric online videogame Unreal Developer
4 months in a team of 7 to develop an entire video game with agile methods C++, Unreal, Agile Methods, Object-Oriented Programming, Networking, Real-time systems, Symbolic AI (Squads), Data-Driven Gameplay
- Autumn 2018 **AIBootCamp** Game AI Programming Challenge C++ Developer
Experiencing and solving for 3 months all the issues of Symbolic AI in video games C++, Symbolic AI, Agile Methods, Pathfinding (with doors!), Cooperative Agents, 5ms constraint, Parallel systems
- Summer 2018 **Immersive Factory** Internship in a VR company Unity Developer
Experiencing for 3 months the video game company workflow C, Unity, Virtual Reality, Level Design, Continuous Development, Unity Web Request
- 2017 - 2018 **ENSEEIH projects - Multimedia** Coding in small teams Matlab Developer
Tensorial surfaces, Principal component analysis, Face Recognition, Denoising, Inpainting, Segmentation by classification, Variational Methods, Data Reduction, Object Detection, Image Recovery Using Scrum, Agile methodologies
- 2016 - 2017 **ENSEEIH projects - General** Coding in small teams Java Developer
Object-Oriented programming, Web Development, Digital Optimization, Probability and statistics, Differential Calculus, Linear Algebra, Parallel Systems, Graph Theory, Database Using Scrum, Agile methodologies
- July 2017 **IncubWeb** Internship in a Web Developing Company Web Developer
HTML, CSS, PHP

- May 2017 **RogueLike Game** Leading and Managing a 6 persons team Java Developer
Java, Architecture Design, Procedural Level Generator
- Oct. 2016 **Carbon Literacy Project** Developed carbon literacy awarenessOnline training
Official certificate

Personal Projects

- Currently **Stanford ML Course** Online formation in Deep Learning Formation
Neural Networks, Backpropagation, ConvNets, Localisation & Detection, Visualization, Recurent Neural Networks, Segmentation
- Currently **MIT AI Course** Online formation in Artificial Intelligence Formation
Goal-Tree, Expert System, A, Minimax, KNN, Neural Networks, Genetic Algorithms, SVM, Boosting*
- Currently **Self-Learning Project** State-of-the art Machine Learning Formation
*Reproduction of the AlphaZero algorithm from scratch
C#, Python, Tensorflow, Numpy, Monte-Carlo-Tree-Search, UCB1, PUCB, Deep Neural Networks*
- June 2019 **Machine Learning Course** Online formation in Machine Learning Formation
Python, Tensorflow, Deep Neural Networks, Convolutional Neural Networks, Recurent Neural Networks
- May 2019 **Google Cloud OnBoard** Formation in Cloud Computing Services Formation
Machine Learning, Scalability, Cloud
- March 2019 **Google Code Jam** Participating in 2 Code Jam Coding Competition
*Almost reaching round 2!
C++, Dynamic Programming, Knapsack problem, Optimizations, Bit shifting*
- October 2018 **HadokeMDP** Reinforcement Learning AI on StreetFighter Bot Unity Developer
Reinforcement Learning, Q-Learning, Unity
- March 2019 **Game Jam** Designing, Developing, Not sleeping Unity Developer
2D Game, Unity, 48h programming
- 2018 - 2019 **Personal WebSite** Developing, Used to present my projects Web Developer
HTML, CSS, PHP, BootStrap
- August 2018 **Game Jam** Designing, Developing Unity Developer
Virtual Reality Game, Unity, Pair Programming
- Summer 2018 **3D Parkour Game** 3D platforming video game project Unity Developer
Complex movement gameplay system, Unity, Architecture Design, Oriented-Object Programming
- March 2018 **Card Game** Designing, Developing, Manufacturing Card Game Designer
Deck Building Card Game, Testing, Balancing, Iterating
- February 2017 **Clicker Game** Designing, Developing, Coding Java Developer
Skinner effect, Pair Programming, Slick2D
- January 2017 **Game Jam** Designing, Developing Unity Developer
2D Game, Unity, 48h programming
- 2015-2017 **Card Game** Designing, Developing, Manufacturing Card Game Designer
Testing, Balancing, Iterating
- 2015 **2D Parkour Video Game** Designing, Developing, Coding C & SDL Developer
2D Graphic Isometric Engine, C
- 2013 **Icon Rush 2** Designing, Developing, Coding C & SDL Developer
My First Video Game!