AUDREY MORIN

@ audrey.morin.3@gmail.com   📞 (425) 614-9850   📍 Redmond, WA   in linkedin.com/in/audreymorin3   ⌂ github.com/msdrey
🔗 audreymorin.me

PROJECTS

TechTogether Hackathon
SafeWalk Boston

📅 March 2019   📍 Boston, MA

- Invented an algorithm that computes the safest walking route between two locations according to crime statistics.
- After users input an origin and destination, our website explores possible Google Maps walking routes, taking into account the crime statistics in the locations along them, in order to evaluate their safety levels.
- **Techs** Python, Google Maps API, HTML, jQuery, GitHub Pages
- **Awards** Best Use of Open Source Data For Social Good, Climate Change Environmental Sustainability Challenge

---

Class project
Wordasaurus

📅 Spring 2020   📍 Seattle, WA

- Went above and beyond on a simple client/server assignment and delivered a fully working multi-user word-guessing game hosted on an AWS server
- **Techs** TCP/IP socket programming, C++, multi-threading, AWS, GitHub

---

Class project
Emerald Airlines Web Database

📅 Fall 2019   📍 Seattle, WA

- A website for running queries on our cloud based database for the fictional company Emerald Airlines.
- **Techs** mySQL, SSH, AWS Linux Server, Node.js, JavaScript , GitHub

RECENT EXPERIENCES

Mathematics Teacher
Marianopolis College, Cegep St-Jean-sur-Richelieu & Maisonneuve

📅 2015 - 2018   📍 Montreal, Canada

- Instructed college level mathematics to 13 groups of ≈30 students over the course of 7 semesters
- Produced sets of guided lecture notes for Linear Algebra and Calculus I
- Designed and graded exams, weekly quizzes and assignments
- Taught diverse math topics such as Linear Algebra, Calculus I & II and Quantitative Methods to Science and Social Science students

Teaching Assistant & Lab Assistant
University of Montreal

📅 2011 - 2014   📍 Montreal, Canada

- Prepared and conducted exercise sessions for Linear Algebra, Calculus I and Psychoacoustics to 4 groups of ≈40 undergraduate students over the course of 4 semesters
- Designed experiments, recorded and audio engineered audio stimuli, collected and analyzed data on the phonetic analogies of guitar timbre
- Recruiting and data collection at the BRAin, Music and Sound laboratory

PROGRAMMING

- Java
- C++
- Python

TECHNICAL SKILLS

git   SQL   ASP.NET   PSPP   LaTeX
MATLAB   Mathematica

SOFT SKILLS

👥 **Leadership, Teaching**

🗂 **Organizational skills**

⚙ **Critical and logical thinking**

💬 **Languages**
French (Native), English

EDUCATION

Fundamentals of Computer Science Graduate Certificate
Seattle University

📅 2019 – 2020

4.0/4.0 GPA
- OO Concepts, Data Structures and Algorithms, Databases, Operating Systems, Software Engineering

---

B.Sc. and M.Sc. in Mathematics
University of Montreal

📅 2009 – 2017

M.Sc. 4.0/4.0 GPA (ECE, Quebec 4.2/4.3)
- Master Thesis in Differential Topology
- CRSNG, FRQNT Research Grants

B.Sc. 3.95/4.0 GPA (ECE, Quebec 4.1/4.3)
- Topology, Linear Algebra, Algebra, Analysis, Probability, Stochastic Processes
- 2x CRSNG Summer Research Grant

Minors Cognitive Sciences & Digital Music
- CRSNG Summer Research Grant