AUDREY MORIN

Software Developer, Mathematician and Educator

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PROJECTS

Personal Project

Sewing Pattern Maker

2020-2021

Seattle, WA

\$ (425) 614-9850

✤ audreymorin.me

- Developed a web app that allows users to generate a printable pdf sewing pattern from a picture.
- The user traces the outline of an uploaded picture of a garment with our drawing tools. Our algorithms separate the pattern pieces and add sewing allowances, then scale and output the result to a downloadable pdf.
- Techs React, Typescript, HTML Canvas, GitHub

TechTogether Hackathon

SafeWalk Boston

🛗 March 2019

9 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 web app uses the **Google** Maps API to generate various walking routes. Our algorithm then evaluates their safety levels by taking into account the crime statistics in Boston.
- Techs Python, Google Maps API, HTML, jQuery, GitHub
- 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 **client/server** assignment and delivered a **multi-user** word-guessing game hosted on a Google Cloud VM.
- Features password protected **user accounts**, user high scores, a public **leaderboard** and the possibility for users to contribute to our bank of clues
- Techs C++, TCP/IP, multi-threading, Google Cloud VM, GitHub

RECENT EXPERIENCES

Data Analyst

MAQ Software

Since February 2021

Q Redmond, WA

- Query data using SQL and KQL and interpret the data using Power BI
- Participate in technical meetings and periodical reviews of implementationParticipate in technical trainings and complete relevant industry courses in
- Power BI, SQL, Azure Computing Services and KQL

Mathematics Instructor

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

- Instructed college level mathematics to 13 groups of ${\approx}30$ students over the course of 7 semesters.
- Produced guided lecture notes, exams, quizzes and assignments

in linkedin.com/in/audreymorin3

PROGRAMMING

Java
C++

Q Redmond, WA

- Typescript
- Python

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

Master's 4.0/4.0 GPA (Quebec 4.2/4.3)

- Master's Thesis: Morse complexes and their equivalencies (in French)
- \$17,500 CRSNG Research Grant
- \$15,000 FRQNT Research Grant
- Bachelor's 3.95/4.0 GPA (Quebec 4.1/4.3)
- Linear Algebra, Algebra, Analysis, Differential Geometry, Topology, Probability, Statistics
- 2x \$5,625 CRSNG Summer Research Grant

Minors Cognitive Sciences & Digital Music

• \$5,625 CRSNG Summer Research Grant

TECHNICAL SKILLS

Git HTML CSS React			
MS Azure	SQL	KQL	Research
LaTeX MATLAB			

SOFT SKILLS

 Leadership, Teaching
 Critical and logical thinking
 Organizational skills
 Languages French (Native), English (Fluent)