# James Hill

jhill044@uottawa.ca ❖ (343) 777-8476 ❖ Ottawa, Ontario
https://coat-portfolio.vercel.app

## RELEVANT WORK/RESEARCH EXPERIENCE

**JSI Telecom**                                         **September 2023 – December 2023**
*Software Developer Co-op*                              *Ottawa, 99 Michael Copland Dr.*

- Gained experience developing web applications with JavaScript, C#, Java, Docker, Kubernetes, SQLite and Kafka, as well as version control technologies such as git and tfs.
- Gained experience with Angular/Ruby full stack web application development.
- Collaborated with multiple developers over a wide array of teams to fix bugs and roll out new builds.
- Worked in an agile project management approach.
- Developed grunt tasks for cache control purposes.

**MHPD Health Canada**                                  **May 2019 – September 2021**
*BI-2 casual*                                           *Ottawa, 335 River Rd*

- Automated office tasks with VBA.
- Worked in regulated, data-rich environments
- Developed experience with DSTS, DPD, docubridge, and Canada Vigilance Adverse Reaction Database
- Demonstrated analytical and research skills while writing PBRERs

**ESTS Environment Canada**                             **Sept. 2018 – April 2019**
*Oil properties analyst*                                *Ottawa, 335 River Rd*

- Used MATLAB to build least square regression models (PCA, PLS regression) of ft-IR based oil spectra for prediction of SARA (Saturates, Aromatics, Resins and Asphaltenes) components of neat oils
- Experience with GC-MS, ft-IR (ATR and Transmission based) and fluorometry.
- Responsible for performing statistical analysis and writing code in MATLAB and VBA.

**Honor's Project (Bioinformatics)**                    **September 2019 – April 2020**
*Student*                                               *Ottawa Hospital Research Institute, 1053 Carling Avenue*

- Investigated p-value biases of DESeq2 using permutation testing.
- Gained experience in differential gene expression analysis using R packages such as DESeq2
- Developed experience in cloud computing using Compute Canada servers for computationally heavy experiments requiring multiprocessing.
- Designed permutation testing analyses methods for DESeq2 differential gene expression analysis using R.

## Freelance Work

**Software Developer - AI trainer (contract) - Data Annotation Tech**      **January 2024 – Present**

- Prompt engineering with various parameters and producing assessments of results Quality Assurance for other analysts' work (prompts, code, feedback, conversations, instruction-following, etc.)
- Annotated and corrected code in python, JavaScript, csharp, rust, c++, java, kotlin, and bash
- Reviewed AI responses regarding many different api's including azure vault, aws, next.js, pandas, etc...

**Projects**

**Implementation of Pluribus AI Poker Bot (C++/C)**
- Implementation of poker AI using Counterfactual regret.
- Created Poker Engine using basic OOP principles.
- Designed a thread safe MCCFR model to create the ai's blueprint strategy.

**Ocean Change App**
- Application designed to help fisherman report useful observations to the Oregon Department of Fish and Wildlife.
- Tech Stack: Flutter/Dart, Firebase/Firestore, Hive, Xcode, TestFlight

**Portfolio Website**
- Created using NextJS, React, Tailwind CSS
- Deployed with Vercel (Check it out at https://coat-portfolio.vercel.app)

## EDUCATION

**Oregon State University**                                                       **Graduated August 2024**
*Computer Science Bachelor's Degree (Postbacc)*
- 4.0 GPA

**University of Ottawa**                                   **Graduated Magna Cum Laude in April 2020**
*BSc. in Biochemistry with honors, specialization in Biochemistry (Co-op)*                    *Ottawa, ON*

## SKILLS

C++/C
C#
Java
Linux/Bash
JavaScript (Node/React/Angular)
Kubernetes/Docker
SQL/SQLite
AWS
Next.js
Firebase/Firestore
HTML/CSS/ Tailwind CSS
Flutter/Dart
Python
Ruby
MATLAB/VBA/R

## LANGUAGES

English: Fluent
French: Proficient
Chinese: Intermediate