Amy Hynes

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EDUCATION

McGill University
Montreal, QC, Canada

Bachelor of Arts and Science in Cognitive Science, Concentration in Computer Science
Sept. 2016 – May 2020

Awards: First Class Honours in Cognitive Science, Dean's Multidisciplinary Undergraduate Research List

EXPERIENCE

- **Google**
New York, NY

  Software Engineer
April 2022 - Present

  - Designed, implemented, validated using experiment framework, and launched two SQL and Java based advertiser recommendations to display suggestions in the Google Ads UI for advertisers to improve their App Installation Ads, increasing revenue by an estimated $110M annually
  - Implemented, coordinated, and launched cross-team project to standardize the visibility of System-Generated Assets to advertisers, and to simplify their metric reporting
  - Improved team's monitoring and alerting by expanding coverage on multiple metrics including ad revenue and error rates using SQL queries of Ads database tables and logs
  - Tools: C++, SQL, Dart, Critique, Cider

- **JP Morgan**
Glasgow, UK

  Software Engineer
Sept. 2020 - Feb. 2022

  - Designed, implemented, and tested Java Spring web API and backend to onboard premier clients, including Amazon and Progressive Insurance, to account validation system
  - Utilized Agile methodology as our team built a suite of applications to construct the account validation system for business-critical verification of accounts before transactions are performed, ensuring millions of successful transactions per month
  - Mentored and offered support and coaching to new hires as our team quadrupled in size over the course of a year
  - Tools: Java, Spring, Mockito, JUnit

- **Morgan Stanley**
Montreal, QC, Canada

  Software Engineer
Summer 2019

  - Designed and implemented Java Spring application supporting business-critical trading of loans
  - Migrated 4000 lines of legacy C++ code into Java Spring code
  - Developed unit tests and integrated continuous deployment for project using Agile methodology
  - Tools: Java, Spring, Mockito, JUnit

COMMUNITY INVOLVEMENT & PROJECTS

- **Histology Cell Counter** *Honours Research Project, McGill University*
Sept. 2019 - May 2020
  - Wrote python script for preprocessing and counting the number of cells in biological microscope images
  - Designed, implemented, and tested software that uses machine learning to perform analysis on histology images
  - Tools: Python, Scikit-learn, Scikit-image, Pickle

- **National Autistic Society Web App** *JP Morgan Charitable Project*
Nov. 2020 - Aug. 2021
  - Collaborated with a team of 7 recent grads to design and develop a web application for employers to post autism-friendly job adverts
  - Implemented logic and tests for login and password reset functionalities
  - Tools: React, CSS

PROGRAMMING SKILLS

- **Languages**: Java, C++, Python, SQL, CSS   **Technologies**: Bash, Spring, JUnit, Mockito, React