

PERSONAL STATEMENT

Computer Science Student (GPA 4.0) at the University of Prince Edward Island (UPEI) with well-developed analytical ability to problem solve, differentiate, critically think and create well-structured code, seeking a Co-operative Education Term with IBM as a Software Developer Intern.

HIGHLIGHTS OF QUALIFICATION

- Third Year Computer Science student with minor in Mathematics (GPA: 4.0)
- Recipient of TD Student Research Award in April 2020 to pursue summer research in Machine Learning and Human Computer Interaction (Competitive Award)
- Proficient: Java (2.5+ Years), C++ (2+ Years), Unix Environment
- Comfortable: Python, C, Html, SQL, PHP, Verilog
- Active participant in Competitive programming and Computer Science Problem Solving as evidenced by 300+ solved problems on open.kattis.com / codeforces.com (competitive problem solving websites).
- Strong grounding in Data Structures, Algorithms and OO Design

EDUCATION

Bachelor of Science, Major: Computer Science
Minor: in Mathematics & Co-Operative Education Distinction
University of Prince Edward Island, Charlottetown, PE

Sep 2018-Present

- **GPA:** 4.0
- **Relevant Courses:** Algorithm Analysis, Operating Systems, Data Structures and Algorithms, Programming Practices, Digital Systems, Comparative Programming
- **Relevant Projects:** Available on github.com/eykassa

PROFESSIONAL EXPERIENCE

Teaching Assistant

Sep 2020-Present

University of Prince Edward Island, Charlottetown, PE

- Assisted the professor in delivering and explaining course material to students
- Scheduled weekly explanatory sessions where student may get help on homework, labs or any material related to the course
- Coordinated and marked lab projects

Research Assistant CO-OP Internship Under the supervision of Professor Dr. Andrew Godbout

April 2020 - Sep 2020

University of Prince Edward Island, Charlottetown, PE

- Implemented an interactive movement analysis system deployed on a portable machine learning platform (NVIDIA Jetson Platform)
- Researched academic papers and developed research skills in the area of machine learning and neural networks
- Used Arduino, Python, C, and C++ to develop software that incorporated a real-time data analysis from various sensors including IMUs and sEMG
- Utilized neural network architectures to analyse and characterize specific movements in real-time

- Built a small dataset to be used to train the final version of the neural network/machine learning software

Lab Assistant

Jan 2020 - April 2020

University of Prince Edward Island, Charlottetown, PE

- Assisted Professors with explanations and instructions on course materials to students in the lab setting
- Only top students displaying broad skills are hired as Lab Assistants at UPEI

RELEVANT INTERESTS

Problem Solving

- Member of UPEI's competitive programming team
- Solved various programming problems on Kattis, Codeforces, Atcoder, Leetcode
- Mostly use C++ to solve competitive programming problems
(<https://github.com/eykassa/Competitive-Programming>)

OTHER RELEVANT SKILLS

Git & Github

- Very comfortable with git command line interface
- Built a small github portfolio website (<https://essayaskassa.github.io/Essayas-Portfolio>)

Google App Engine & SQL Cloud

- Built a Web application where users can create an account and track desired stock prices
- Stored user data on the google SQL cloud via private IP address connection to the google app engine

SCHOLARSHIPS & AWARDS

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| • TD Student Research Award | April 2020 |
| • UPEI Academic Excellence Award | Sep 2020 |
| • UPEI Academic Excellence Award | Sep 2019 |