

Aaron Abraham

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EDUCATION

WEBBER ACADEMY

Sept 2015 - June 2019 | Calgary, AB

Overall average: 98%

Academic Achievements:

- Top average in Grades 9 and 11
- Top subject marks in all Programming courses
- Won multiple academic scholarships

LINKS

Github:// [aaronabraham311](#)

LinkedIn:// [Aaron Abraham](#)

COURSEWORK

HIGH SCHOOL

Object Oriented Programming

iOS Development

Web Development

Iterative Algorithms

Data Structures

Procedural Programming

AP Statistics

AP Calculus BC

ONLINE/OUTSIDE SCHOOL

Stanford Machine Learning course

University of Calgary Bioethics course

SKILLS

PROGRAMMING

Proficient:

C++ • HTML/CSS • R

Familiar:

Python • Javascript • Matlab • Swift

Technologies:

Microsoft Office • caret • plotly • Git

AWARDS

- 2018 Canada Wide Science Fair: silver medalist, Statistical Society of Canada Award, YouthCanInnovate Award
- 2018 Sanofi Biogenius: Provincial champion for science project
- 2018 Big Data Challenge: National SAS Analytics Award for most comprehensive analytics project
- 2014-2016 Canadian Geographic Challenge: 3-time top 5 finalist for national geography competition

EXPERIENCE

WEB FREELANCER July 2017 – Present | Calgary, AB

- Created 6 websites for various youth organizations and a local business using Bootstrap and Javascript
- Utilized search engine optimization techniques to generate 350+ views for each website

CALGARY PUBLIC LIBRARY | SENIOR CODE CLUB VOLUNTEER

June 2015 - Present | Calgary, AB

- Tutoring students in Python, HTML/CSS and basic computer principles based on code.org curriculum
- Collaborated with Code Club supervisor to create coding curriculum for advanced students

CALGARY MAYOR'S YOUTH COUNCIL | Co-CHAIR

September 2016 - Present | Calgary, AB

- Initiated and organized 2018 Innovation Challenge hackathon, with more than 60 youth attending
- Lead team in creating multiple youth reports for Mayor Nenshi; used in formulating city policy on cannabis usage

WEBBER ACADEMY STUDENT'S UNION | PRESIDENT

September 2016 - Present | Calgary, AB

- Organized 80 volunteers to host multiple fundraisers, dances, and spirit rallies
- Acted as a liason among students and administration to convey student body concerns

HERITAGE YOUTH RESEARCHER SUMMER PROGRAMMER

(HYRS) | SUMMER INTERN

July 2018 – August 2018 | Calgary, AB

- Utilized hierarchical clustering and support vector machines to develop a new bioinformatics tool for the detection of important genes in cancer development
- Significantly increased accuracy of clustering compared to traditional metagene clustering
- Presented project in annual symposium in front of more than 200 visitors

CRITICAL MASS | SUMMER INTERN

August 2017 – August 2017 | Calgary, AB

- Created prototype app using Proto.io for National Music Centre
- Implemented wireframing and other user experience principles in app design

PROJECTS

SCIENCE FAIR | ENSEMBLE-BASED MACHINE LEARNING FOR ALZHEIMER'S DISEASE DIAGNOSIS

Sept 2016 - Present | Calgary, AB & Edmonton, AB

Created a diagnostic tool for Alzheimer's disease using blood data. Ensembled 5 machine learning models achieved 95.6% accuracy. Used statistical analysis to identify important blood-based biomarkers for Alzheimer's

BIG DATA CHALLENGE | COMMUNITIES AND CRIME DATA ANALYSIS

Sept 2017 – March 2018 | Calgary, AB

Analyzed violent crime rate trends in the U.S. using Python machine learning and data analysis skills and created unique policy recommendations.