

Andrew Lau

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SUMMARY OF QUALIFICATIONS

- Developed a solid knowledge of engineering and design strategies through projects and extracurricular activities
- Languages: Java, C, C++, C#, Python, HTML/CSS, ASP.NET MVC, PL/SQL, Excel VBA, MATLAB, Verilog
- Technologies/Applications: Git, Visual Studio, Jira/Confluence, MS Office, Intel Quartus/ModelSim

EDUCATION

University of Toronto

Expected Apr 2021

Bachelor of Applied Science in Computer Engineering

- **Cumulative GPA: 3.81 / 4.00** (86% average)
- Specializing in Software Engineering and Control Systems, Minor in Artificial Intelligence

PROJECTS

Personal Website | andrewlaugit.github.io

May 2018

- Created as a platform to highlight personal projects and learn about my interests
- Learnt and utilized HTML/CSS to create an easily navigable webpage, plan to implement jQuery increase interactivity

MapperToo (Desktop Mapping Application)

Jan 2019 – April 2019

- Developed an application like Google Maps using C++ and GTK, including route highlighting and natural language directions
- Optimized routes using Dijkstra's and A* algorithms, improving performance over 130%

WORK & LEADERSHIP EXPERIENCE

Capital Markets Developer Intern, Cross Business Risk - Trading Logic Group

May 2019 – Aug 2019

Bank of Montreal, Office of the Chief Operating Officer / Toronto, ON

- Developed solutions for sales and traders for risk and position management, profit and loss monitoring, and trade execution
- Designed and implemented an event driven real-time trade feed to capture and process live trades, handling over 1000 daily trades with total value exceeding \$1 billion, used on trading desks across the trading floor
- Created various C# console applications to automate daily tasks and reports, interacting with 1st and 3rd party APIs
- Architected a RESTful API to securely update current cash positions between the funding dashboards in China and Toronto
- Modified a WPF application for submitting daily rates to Reuters, adding 17 'expert judgement' fields used to determine rates
- Coded ETL solutions in Oracle SQL to calculate trading volumes and liquidity of bonds, leveraging Bloomberg to validate data
- Developed a dashboard using ASP.NET MVC to view logs and current statuses of scheduled tasks and services

Day Camp Counsellor, YMCA Ontario Place Day Camp

June 2018 - Aug 2018

YMCA of Greater Toronto / Toronto, ON

- Planned and led activities for a group of twelve campers fostering respect, leadership and teamwork
- Communicated continuously with parents, staff, and campers to ensure camper safety and enjoyment at the outdoor camp

EXTRACURRICULAR ACTIVITIES

Finance Director, University of Toronto Engineering Competition

June 2018 - Present

University of Toronto Engineering Society / Toronto, ON

- Drafted and maintained a budget totaling over \$19,000 for a two-day engineering-based competition with over 300 participants
- Communicated with numerous organizations to ensure sponsorship funds were secured in a timely manner
- Analyzed past expenditures and reallocated funds within the team, resulting in a 30% decrease in spending and \$2000 in profit

Mentor, Electrical and Computer Engineering Club

Sept 2018 – Apr 2019

University of Toronto / Toronto, ON

- Advised and supported a group of six first-year computer-engineering students to aid in their transition into university
- Organized monthly check-ins to ensure mentees remained motivated and recommended campus resources to ensure success

AWARDS AND CERTIFICATES

- University of Toronto Engineering Dean's Honours List (2018,2019)
- Royal Conservatory of Music Grade 10 Practical with Honours (Aug 2017)

INTERESTS

- Airplanes, Gordon Ramsay, Equity Investments, Robotics, Swimming – former competitive swimmer of 10 years
- Photography & Traveling – recent destinations include Iceland, Hong Kong, Vietnam, Spain, Portugal