

# Peter Huang

University of Waterloo | 3B Computer Science & Finance | (647) 609-6608 | peter.huang339@gmail.com

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## SUMMARY

- Experience with developing enterprise solutions and financial technology using efficient algorithms & data structures
- Built web applications for gov't and investment firms in Toronto's Financial District, serving over 31500 clients
- Exposure to working with financial data in the stock markets, debt capital markets and asset management
- Adept in Java, C++, Python through previous internships and extracurricular activities

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## EDUCATION

### University of Waterloo – Cheriton School of Computer Science

Waterloo, Ontario

*Bachelor of Computing and Financial Management, CPGA 3.5/4.0*

Expected 2020

- Awarded the Microsoft scholarship in Mathematics, Canadian Interuniversity Sport Academic All-Canadian

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## EMPLOYMENT EXPERIENCE

### Gluskin Sheff + Associates

Toronto, Ontario

*Fixed Income Software Developer*

May 2018 – August 2018

- Developed daily bond monitoring tools across all sectors to monitor real time changes in prices, spreads, yield curves, and other quantitative data (specification to completion) – used by the Chief Investment Officer, MD's, VP's, PM's
- Improved runtime of daily processes from over 5 hours to under 30 minutes, using efficient data structures (e.g. Dictionary, Hashmap) and algorithms (e.g. bottom up tabulation DP) in .NET and Excel & VBA, batch queries in sets, and optimized SQL views and properties
- Migrated code from mySQL to SQL as well as refactored database relationships, views, and stored procedures

### Edisoft Inc.

Toronto, Ontario

*Full-Stack Software Developer*

September 2017 – December 2017

- Developed a file import & export system handling all special characters and delimiters for large amounts of supplier and vendor data, using a Regex matching algorithm, resolving all related client tickets and eliminating future recurrences (.NET, SQL, specification to completion)
- Implemented front-end utilities (e.g. filters, EDI mappings, user preferences, sortable tables) allowing support staff to process more than 2.1x the number of client requests per day (ASP.NET MVC, Javascript, jQuery, HTML, CSS)

### KPMG LLP

Toronto, Ontario

*Software Developer – Tax Transformation & Digital Compliance*

January 2017 – April 2017

- Developed a tax election site to provide investors with electronic versatility to process sensitive equity data (.NET, SQL)
- Enhanced the efficiency, error-checking, and functionality in tax analytics desktop applications for internal investment clients (C++, .NET suite) – reducing the time of 12 manual processes from 11 days to 6 hours
- Automated the tax return preparation process for over 25600 tax clients, by creating stored procedures and batch queries while eliminating all manual entry and checks – reduced 3 weeks of tax prep time to 4 hours of run time

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## PROJECTS

### Financial Modeling Framework (R, Python)

- Developed a framework with scripts and GUI's modeling returns, forecasts, and performance metrics of securities
- Designed customizable tools to pull ticker data, compute CAPM, multiples, ratios, for investment research projects

### Leukocytic Defense (Java)

- Developed a 2-D Tower Defense game using Object Oriented Design, Polymorphism, Abstraction and Encapsulation
- Utilized the observer, template, factory, strategy, and decorator design patterns; and Java GUI (e.g. JFrame, JPanel, JButton)

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## SKILLS, ACTIVITIES & INTERESTS

### Programming tools and concepts:

- C++, Java, C# & .NET, C, Python, Unix Terminal, GDB, Git
- Algorithms (e.g. DP, D&C), Data Structures, Object Oriented Design, Design Patterns, UML & Documentation

### Extra-Curricular Activities:

- UW Algebra Teaching Assistant (MATH 135); UW Data Science Club, UW Finance Association
- Varsity Track and Field Athlete – Middle Distance, Cross Country
- 1<sup>st</sup> Place – 2018 University of Waterloo Investment Research Challenge: Enerplus Corporation, TSE: ERF
- 5<sup>th</sup> Place – 2017 University of Waterloo Investment Research Challenge: Polaris Industries, NYSE:PII

**Interests:** Programming, investments, photography, running, volleyball, skiing, NBA, event planning