

# Gancheng Luo

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## HIGHLIGHTS OF QUALIFICATIONS

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- Motivated and detail-oriented Computer Science, Statistics, and Math student with strong knowledge of front-end and back-end development, data visualization and software development cycle.
- Developed and demonstrated multitasking skills, fast learning ability, and extensive teamwork experience.
- Self-motivated, results-driven, development player, with excellent interpersonal and communication skills.
- Proficient in programming languages including JavaScript, HTML5, CSS3, Python, C, Java, Git, R, LaTeX, Markdown, SQL.
- Strong understanding of JS frameworks with React, MaterialUI. Familiar with NodeJS, npm, and jQuery.

## EDUCATION

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### University of Toronto

Toronto, CA

Bachelor of Science, Major in Statistics, Minor in Mathematics and Computer Science

Sep. 2017 – Present

- Main Courses: Math Expr&Rsng for Cs, Data Structures & Analysis, Software Design, Intro to Databases, Intro Machine Learning, Soft Tools & Sys Prog, Programming on Web, Methods of Data Analysis

### Certificates

- SAS Certified Professional: Base Programming Using SAS 9.4

## WORK EXPERIENCE

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### Coco Fresh Tea & Juice China Town

Toronto, CA

Technical Associate

Nov. 2017 – Present

- Maintained store database with data regards to sales, raw materials, inventory, workforce and revenue to perform analysis on products profitability and manage workforce scheduling.
- Developed a regression model and a time series model to forecast revenue in the coming year by R and Python.
- Led the company website design with features including employee time scheduler, internal message system using HTML, CCS, JS, Express and MongoDB.
- Maintained the website and server as the main developer, solved ad-hoc issues in a timely manner.

## PROJECT EXPERIENCE

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### Dynamic Data Visualization Library at [Dynrank.js](https://github.com/dynrank/dynrank.js)

- Designed a data visualization library to demonstrate the dynamic changing of rankings of objects.
- Enabled developers to determine chart color, size, animation speed or control buttons based on DOM manipulation by jQuery.

### Online Cryptocurrency Community and Trading at [CryptoGoGo](https://crypto-go-go.com)

- Led and designed a website to support cryptocurrency trading simulation with live price and discussion board.
- Built with React for front-end, Express and MongoDB for back-end with applications of REST API to enable website functionalities.
- Implemented front-end for the community section by React and MaterialUI, using MongoDB schema to connect back-end API.
- Iterated the design prototypes through multiple phases to make improvements and troubleshoot the potential pain points to achieve the final web product.

### Bank Deposit and Transaction System

- Designed a banking system by Java with functionalities such as deposit, money withdraw, transaction between accounts, and bank employee management.

### Study Ability Simulation

- Leveraged machine learning techniques using KNN, Neural Networking, Ensemble learning to use historical study performance to predict future outcome for students at online learning website.
- Tested and adjusted hyperparameters to achieve an accuracy of 80+% and ranked at top 20% in a Kaggle competition.

### Personal Website at [andy8647.com](http://andy8647.com)

- Developed a personal website with Github Pages and Jekyll, added customized domain and Google Analytics.