

Gancheng Luo

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EDUCATION:

Bachelor of Science

University of Toronto Sep 2017 – June 2021

- Major in **Statistics** and **Computer Science**. Minor in **Mathematics**.

SKILLS:

Languages: JavaScript/TypeScript, HTML/CSS3, Python, C, Java, SQL, R, bash scripting

Frameworks: React, Redux, Node.js, Express, Socket.io, Material-UI, Bootstrap, Tailwind, Apache Echarts, JSON, jQuery, PyTorch, scikit-learn, NumPy, Matplotlib

Databases/Tools: MongoDB, Redis, MySQL, PostgreSQL, Git

Knowledge: Website Deployment, OOP/OOD, Design Patterns, Machine Learning, Data Visualization

PROJECTS:

CryptoGoGo, Online Cryptocurrency Community and Trading platform using React, Node.js

Toronto

Apr 2020 – Aug 2020

- Led and designed the web application to support cryptocurrency trading simulation, real-time price update and discussion community.
- Implemented the frontend using React, Material UI, Bootstrap, Ajax, Apache ECharts.
- Built a micro-service backend system using Node.js, Express, MongoDB.
- Developed cryptocurrency price real-time updating microservice module. Used Socket.io to synchronize the real-time cryptocurrency price data between frontend and backend.
- Developed the cryptocurrency price chart using ECharts, implemented big dataset navigation feature which allows user to quickly view chart at a certain time range.

Dynrank.js: a high-performance dynamic bar chart visualization library

Toronto

Sep 2019 – Dec 2019

- 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 using Vanilla JavaScript. Link: <https://dynrank.herokuapp.com/>

Java and PostgreSQL based bank transaction management system

Jan 2018 – Apr 2018

- Designed back-end module of the system using UML.
- Implemented role-based access control system using OOD knowledge for system functionality and security.

Personal Website at andy8647.com

- Developed a personal website with React. Implemented animations and light/dark theme toggling.
- Deployed by Github Pages and track website traffic using Google Analytics.

COURSEWORK:

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