JESSE HAN

SKILLS

- Python | Java | C/C++ | JavaScript | R | PHP | Perl | MySQL | MongoDB | ExpressJS | React | Node.js | Git | Django
- AWS | jQuery | Figma | Unit Testing | OOP | Frontend | Backend | Full-stack | Cloud Computing | Web Development

EDUCATION

UNIVERSITY OF TORONTO

Sept 2020 - Present (Expected Graduation 2024)

Bachelor of Science (Computer Science Specialization)

<u>Relevant Courses</u>: Computer Programming, Computer Science, Software Tools and Systems Programming, Software Design, Computer Organization, Data Structures and Analysis, Mathematical Proofs, Differential Calculus, Integral Calculus, Multivariable Calculus, Theory of Computation, Linear Algebra, Probability and Statistics

- Honour Roll (2020 2021): Obtained a grade of 90% or greater in Mathematical and Computational Sciences courses taken at the University of Toronto from September 2020 to April 2021.
- Dean's List (2020 2021): Achieved a cumulative grade point average of 3.96 at the end of the 2021 academic session.
- **Dean's List (2021- 2022)**: Conferred only on students who have achieved a cumulative grade point average greater than 3.50 at the end of the 2022 academic session.
- June Scott Award (2022): Awarded annually to the University of Toronto student with the highest mark (100%) in a statistics course (Probability and Statistics I).

PROJECTS

Kunjiajia 2022 – Present

- Promote structured learning to help others improve their knowledge in **data structures and algorithms**
- Teach code optimization techniques with clean, documented snippets to provide over 100 students support daily
- End to end website management development, design, content creation, etc;.
- Lightweight and uses dynamically built files to support software design principles via DocsifyJS

Cryptocurrency Trading Bot

2022

- Design and implement an automated trading bot hosted in the cloud by the use of **Amazon Web Services (AWS)** sustaining **99.99% Uptime** for high availability
- Create various data-driven trading strategies using **Binance API** with **RESTful endpoints** and real-time market data streams for low-latency
- Leverage Python's wide variety of libraries including **Numpy**, **Pandas** and **Matplotlib** to analyze historical data and monitor market volatility

Fractal Mock-Up 2021

- Full stack web application designed to **connect over 10,000 students** residing at the University of Toronto
- Responsive web design based on pure HTML, CSS and Javascript without the use of external frameworks
- Build password management with MySQL database which uses SHA hashing to securely encrypt sensitive data

Three Musketeers Game 2021

- Delivers **Interactive GUI** (following the Inversion of Control Principle) built on JavaFX for the Three Musketeers game with Software Design principles and **OOP Concepts** including **Inheritance**, **Composition**, and **Polymorphism**
- Implements a **Model–View–Controller** (**MVC**)- Pattern in the design to split classes by responsibilities, hence restricting each class to one purpose (Single Responsibility Principle)
- Adhere to the Agile Methodology by conducting daily Standups in Scrum Meetings to ensure project goals are met
- Construct UML Diagrams to encourage organized implementation and visualization of the Object Oriented System

LEADERSHIP