JESSE HAN

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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)
Relevant Courses: 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
• 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) 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 to connect 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 leading daily Scrum Meetings to ensure project goals are satisfied
• Construct UML Diagrams to encourage organized implementation and visualization of the Object Oriented System

LEADERSHIP

Mathematical and Computational Sciences Society (MCSS) Member