

# Jesse Han

403-437-2827 | [jessehanca@gmail.com](mailto:jessehanca@gmail.com) | [linkedin.com/in/jessebinghan](https://www.linkedin.com/in/jessebinghan)

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, SQL (MySQL), JavaScript, HTML/CSS, GraphQL, TypeScript

**Frameworks:** React, Node.js, Next.js, Flask, NextAuth.js, Bootstrap, MongoDB, Prisma, Chakra UI

## EDUCATION

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### University of Toronto

Toronto, ON

*Honours Bachelor of Science (Computer Science)*

*Sept. 2020 – Expected April 2024*

- **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 3.96/4.0 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

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### Kunjiajia | *Frontend Web Development*

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

### Yell | *Full-stack Realtime Instant Messenger*

2022

- Create high-level database abstraction with Prisma to facilitate an ORM between Node.js and TypeScript
- Utilize NextAuth.js to connect Google OAuth with a MongoDB database using a Prisma Adapter
- Style React Components with Chakra UI for custom theming and React Hot Toast for lightweight notifications
- Implement GraphQL Queries and Mutations using Resolvers and TypeDefs to find users, create conversations, etc;

### Fractal | *Full-stack Application Mockup*

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
- Password management with MySQL Database which uses SHA256 Hashing to securely encrypt sensitive data

### Three Musketeers Game | *Game GUI*

2021

- Deliver Interactive GUI (follows Inversion of Control Principle) built on JavaFX for Three Musketeers game with Software Design principles and OOP Concepts including Inheritance, Composition, and Polymorphism
- Implement 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 Agile Methodology by conducting Scrum Meetings & Standups to ensure project goals are met
- Construct UML Diagrams to support organized implementation and visualization of the Object Oriented System

## LEADERSHIP & EXTRACURRICULARS

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### School Clubs

- Developer Student Club (Powered by *Google*) (DSC)
- Mathematical and Computational Sciences Society (MCSS)
- Canadian Asian Student Society (CASS)

### Events

- Hack the Change 2022
- Hack the Valley 7