

# LongQuan (Tony) Nguyen

+1 (587) 893-2808

[longquan.nguyen@usask.ca](mailto:longquan.nguyen@usask.ca)

<https://www.linkedin.com/in/longquannguyen/>

## EDUCATION

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### UNIVERSITY OF SASKATCHEWAN (USASK)

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

Average 87

Saskatoon, SK

May 2024

### ST. GABRIEL THE ARCHANGEL HIGH SCHOOL

High School Diploma

Average 84

Chestermere, AB

Jun 2020

- Most Improved Student award
- Rising Star award

## EXPERIENCE

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### DEPT. OF COMPUTER SCIENCE, CEPHIL

#### Undergraduate Research Assistant

Developed simulation models at CEPHIL - Computational Epidemiology and Public Health Informatics Laboratory at USASK, under the supervision of Professor Nathaniel Osgood. Utilized Anylogic's software for building and executing Agent-Based, System Dynamic, and Discrete Event models.

- Formulated problems, demonstrating expertise in problem-solving methodologies.
- Applied advanced mathematical concepts to enhance simulation models' accuracy and effectiveness.
- Debugged code in Java, resolving issues and improving the efficiency of simulation models.

Saskatoon, SK

Aug 2023 - now

### COMPUTER SCIENCE STUDENT SOCIETY

#### Member at Large

Served as Member at Large on the executive team of CSSS - Computer Science Student Society at USASK. Facilitated study and Q&A sessions, addressing challenging computer science topics. Contributed to the planning and coordination of CSSS events.

- Collaborated effectively within the team, fostering a spirit of teamwork.
- Organized and supported various events, showcasing strong event management skills.
- Communicated effectively with the public, ensuring clear and engaging interactions.

Saskatoon, SK

Feb 2023 - Dec 2023

### TUTOROCEAN

#### Subject tutor

Served as a first-year Maths and Computer Science Tutor within the TutorOcean network. Assisted students in understanding complex topics such as Integrals, Derivatives, and Data Structures, including Data Algorithms.

- Applied strong teaching skills to facilitate understanding of challenging concepts.
- Presented ideas in a clear and detailed manner, enhancing students' comprehension.

Saskatoon, SK

Mar 2023 - Dec 2023

## SKILLS

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<b>Technical:</b>	<ul style="list-style-type: none"><li>• Python</li><li>• Java</li><li>• C</li><li>• Haskell</li><li>• TypeScript</li><li>• MIPS Assembly</li><li>• JavaScript, CSS &amp; HTML</li></ul>	<ul style="list-style-type: none"><li>• PyCharm</li><li>• IntelliJ IDEA</li><li>• Visual Studio Code</li><li>• diagrams.net</li><li>• Git</li><li>• Unix / Linux based OS</li><li>• SQLite</li></ul>
<b>Laboratory:</b>	<ul style="list-style-type: none"><li>• LaTeX</li><li>• Anylogic</li><li>• GNU Octave</li></ul>	<ul style="list-style-type: none"><li>• GeoGebra</li><li>• Desmos</li></ul>
<b>Language:</b>	<ul style="list-style-type: none"><li>• English: fluent</li><li>• Vietnamese: native speaker</li></ul>	

## TOPICS OF INTEREST

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<b>Software Development:</b>	<ul style="list-style-type: none"><li>• Agile Methodology</li><li>• Scrum</li><li>• CI &amp; CD</li><li>• Software Testing</li></ul>	<ul style="list-style-type: none"><li>• Database</li><li>• Back-end Development</li><li>• Game Development</li></ul>
<b>Computer Science:</b>	<ul style="list-style-type: none"><li>• OOP</li><li>• Data Structure &amp; Algorithms</li><li>• Computer Architectures</li></ul>	<ul style="list-style-type: none"><li>• Cyber Security</li><li>• Operating System</li><li>• Time &amp; Space Complexity</li></ul>
<b>Mathematics:</b>	<ul style="list-style-type: none"><li>• Calculus</li><li>• Linear Algebra</li><li>• Abstract Algebra</li><li>• Category Theory</li><li>• Set Theory</li><li>• Graph Theory</li></ul>	<ul style="list-style-type: none"><li>• ODEs</li><li>• OPEs</li><li>• Propositional &amp; Predicate Logic</li><li>• Euclidean Geometry</li><li>• Optimization</li></ul>

## VOLUNTEER

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### **AES Note Taker, USASK**

Generated lecture notes for students with diverse needs and utilized Access and Equity Services' accommodations. Supported four classes over two semesters with necessary notes.

Saskatoon, SK  
Sep 2022 - May 2023

### **Blood Donor, Canadian Blood Service**

Initiated my first donation on January 4th and intend to continue contributing in the future.

Saskatoon, SK  
Jan 2024 - now