

LongQuan Nguyen

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EDUCATION

UNIVERSITY OF SASKATCHEWAN (USASK)

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

Average 87

Saskatoon, SK

May 2024

ST. GABRIEL THE ARCHANGEL HIGHSCHOOL

High School Diploma

Average 84

Chestermere, AB

Jun 2020

- Most Improved Student award
- Rising Star award

EXPERIENCE

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

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

TOPICS OF INTEREST

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

VOLUNTEER

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

Event Organizer, Thuc Hanh Su Pham High School

Planned and executed events at Thuc Hanh Su Pham High School. Contributed to the success of two events during the summer.

Can Tho, Vietnam
Jul 2021 - Apr 2021