

# LongQuan (Tony) Nguyen

longquan.nguyen@usask.ca

[LinkedIn](#) | [Personal website](#) | [GitHub](#)

## EDUCATION

### UNIVERSITY OF SASKATCHEWAN (USASK)

May 2021 - May 2024

Bachelor of Science, Computer Science, Mathematics minor. Average: 87

Saskatoon, SK

- Relevant Courses: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Software Engineering & Management, Mathematical Modelling, Simulation Principles, and Applied Category Theory.

## EXPERIENCE

### DEPT. OF COMPUTER SCIENCE, CEPHIL

Aug 2023 - May 2024

Undergraduate Research Assistant

Saskatoon, SK

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

- Applied advanced mathematical concepts to formulate problems and reason through model building process.
- Debugged code in *Java*, resolving issues and improving the efficiency of simulation models.

### COMPUTER SCIENCE STUDENT SOCIETY

Feb 2023 - Dec 2023

Member at Large

Saskatoon, SK

Served as an executive member of USASK Computer Science Student Society. Facilitated study and Q&A sessions, addressing challenging computer science topics. Contributed to the planning and coordination of CSSS events.

### TUTOR OCEAN

Mar 2023 - Dec 2023

Subject tutor

Saskatoon, SK

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

- Employed *Zoom*, *Google Meet* and *Microsoft Teams* for remote tutoring sessions.
- Utilized mathematical graphing tools such as *Desmos* and *Geogebra*, alongside *draw.io* and *LaTeX* documents, to effectively address problems visually.

## PROJECTS

### Concentration Timer

A Google Chrome extension using *JavaScript* and Chrome extension APIs, enabling users to set time and notify users when the time goes off.

### Local Network Terminal Chess

A PvP chess game playable over a local network right from the terminal. Employed *Python* for the game logic and *TCP* for network connections.

### Escape from Spinx

A 2D top-down pixel game built using *C#* and *Unity* engine.

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript, Java, Python, C, HTML/CSS

**Technologies:** React, NodeJS, Vite, MongoDB

**Developer Tools:** Git, GitHub CI/CD, Jest, JetBrains IDEs, Unix/Linux

## VOLUNTEER

### AES Note Taker, USASK

Sep 2022 - May 2023

Generated lecture notes for students with diverse needs. Supported four classes over two semesters.

### Blood Donor, Canadian Blood Service

Jan 2024 - now