

# Aleem Tariq

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<https://github.com/aleemer>

## Education

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### BCS Computer Science (Exp. 2023)

*University of British Columbia*

### BSc Biology (2015-2020)

*University of British Columbia*

## Relevant Courses

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CPSC 110 : Programs & Programming

CPSC 221: Algorithms & Data Structures

CPSC 121 : Models of Computation

MATH 221: Matrix Algebra

CPSC 210: Software Construction

BIOL 301: Biomathematics

## Projects

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*August 2020*

### ***TicTacToeAgent (Python)***

- Developed a tic -tac-toe game where the user plays against an AI
- Project involved a minimax (search) algorithm

*Sept 2019 – Dec 2019*

### ***DailyPlanner (Java)***

- Developed an application that can function as a daily planner
- Incorporates an easy to use GUI, where user can keep track of tasks

*Sept 2019 – Dec 2019*

### ***Disease Emergence Model (Mathematica)***

<https://drive.google.com/file/d/15Kg1FbWfh8mHixDM1jPtH7uNv314VEx/view?usp=sharing>

- Modelled the emergence of a disease epidemic in a growing population to determine the minimum population size needed to sustain an epidemic
- Investigated conditions necessary to limit a disease outbreak

*Jan 2019 - Apr 2019*

### ***Spatial Navigation and Sensory Modality***

<https://drive.google.com/file/d/1wNndRU78QqfiqDCXPQNtmfHVUEl0sAq0/view?usp=sharing>

- Devised an experimental approach, with the specific aim of discerning the relationship between sensory integration, place cells, and navigation strategies in rodents

*Nov 2017 – Dec 2018*

### ***Smartphone Wallpaper Study – Social Health Lab (UBC)***

- As a research assistant, contributed to Dr. Alec Beall's investigation into the role of parenting-relating visual priming on parenting motivations, short-term mating motivation, and punitive condemnation of cultural norm violations

## Technical & Other Skills

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### ***Software/Programming skills***

- Java, Python, C++ language environments.
- Familiarity with Data Types and Structures; Algorithm Analysis & Search/Sort Algorithms
- Familiarity with Version Control, JUnit testing, Implementing OOP and Design Patterns
- Experience with incorporating APIs into projects.

### ***Analytic skills***

- Experience with biological systems modelling in R and Mathematica
- Experience with biological experimental design and testing
- Familiarity with calculus, formal logic, and systems modelling with linear algebra

### **Other**

- Interpersonal, teamwork, leadership skills, time management, ability to follow instructions, and plan and commit to work diligently
- Reliable, motivated, honest, and willing to learn

## Work Experience

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*Aug 2017 – Sept 2017*

### ***Undergraduate Academic Assistant – Biology Department (UBC)***

- Reviewed course textbooks and assisted in office work and setting up departmental events, through effective planning and diligence

*Feb 2014 – Aug 2017*

### ***Volunteer – Vancouver Coastal Health***

- Engaged patients by directing and assisting art programs, gardening, and other leisure activities, including interviews and contribution to a seasonal newsletter

*Sept 2013- Dec 2014*

### ***Volunteer – Harvest Project***

- Integrated well with a team committed to reaching out to individuals and families on the North Shore facing poverty and familial strife
- Assisted maintenance of warehouse and food stores, ensuring freshness and availability

## Activities and Interests

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I have a deep interest for programming and science, especially in the areas of software development, neuroscience, and psychology. I enjoy reading scientific papers and non-fiction in my spare time. I am eager to expand my skillsets, and always looking for an opportunity to work on projects that can help me explore my interests further.

## References

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Available upon request.