

# Utkarshna Sinha

(905)-361-1632 | [sinha.ut@northeastern.edu](mailto:sinha.ut@northeastern.edu)  
[www.linkedin.com/in/utkarshnas](http://www.linkedin.com/in/utkarshnas) | [sinhaut.github.io](http://sinhaut.github.io)

## EDUCATION

---

### Northeastern University

Sep 2019 – Dec 2021

Master of Science in Computer Science, cGPA: 3.75/4.0

Boston, MA

Courses: Computer Systems, Foundations of AI, Algorithms

Awards: Scholarship Recipient for GHC 2020 & WiT Regatta 2020

### University of Toronto

Sep 2014 - Jun 2018

Honors Bachelor of Science, Human Biology & Psychology

Toronto, ON

Leadership Awards: Gordon Cressy Award; Father Robert Madden Award

Activities: Dragonboat Team Captain, Journalist for The Varsity, Biomod Team President

## TECHNICAL KNOWLEDGE

---

Languages

Python, Java, C++, C, C#

Tools

Linux, Git, Jupyter Notebooks, Unity3D

## PROJECTS

---

### Declarative Animation Software

Sep 2017 – Apr 2018

*Northeastern University*

Boston, MA

- Programmed software end-to-end to draw shapes, and transitions, given a natural language descriptions
- Developed using the Model-View-Controller architecture in **Java** with graphics implemented using the **Java Swing UI Framework**

### Biomedical Engineering Capstone Design Project

Sep 2017 - Apr 2018

*University of Toronto*

Toronto, ON

- Prototyped a 3D printed electronic medical device (spirometer) integrated with an **Android** app and game
- Succeeded in learning **Unity3D**, **Python**, and **C#** to design the graphics and game
- Coordinated with healthcare providers and engineers to assess user needs, define project scope, track milestones

## WORK EXPERIENCE

---

### Graduate Teaching Assistant

Jan 2020 – Current

*Northeastern University*

Boston, MA

- Lead office hours, 1-1 tutoring sessions, and recitations to answer questions, and clarify concepts for graduate-level fundamental **Python** programming
- Evaluate programming assignments and exams, and provide feedback on accuracy, style, and documentation

### Software Support Specialist

Apr 2019 – Aug 2019

*Reynolds & Reynolds*

Toronto, ON

- Prepared functional and UI improvement reports for software developers by analyzing client feedback
- Trained new clients on proprietary ERM software, and resolved client concerns resulting in **10% increase of resolutions** in 4 months

### Research Student in Synthetic Biology and Microbiology Labs

Sep 2015 – Apr 2017

*University of Toronto*

Toronto, ON

- Conducted science research resulting in **two written theses, ten poster and oral presentations** at conferences, and **two peer-reviewed publications** - International J of Antimicrobial Agents & American J of Physiology
- Awarded David S. Bruce Abstract Award at the international Experimental Biology Conference
- Studied sex-differences in lung disease, antibiotic resistance to drugs, and synthetic biology for virus detection