# Utkarshna Sinha

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## 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, Bash, 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 asses 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 for fundamental **Python** course
- 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 end-user 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