

Utkarshna Sinha

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EDUCATION

Northeastern University

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

Courses: Computer Systems, Foundations of AI, Algorithms

Awards: Scholarship Recipient for GHC 2020 & WiT Regatta 2020

Sep 2019 – Dec 2021

Boston, MA

University of Toronto

Honors Bachelor of Science, Human Biology & Psychology

Leadership Awards: Gordon Cressy Award; Father Robert Madden Award

Activities: Dragonboat Team Captain, Journalist for [the Varsity](#), Biomod Team President

Sep 2014 - Jun 2018

Toronto, ON

TECHNICAL KNOWLEDGE

Languages

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

Tools

Linux, Git, Jupyter Notebooks, Unity3D

PROJECTS

Declarative Animation Software

Northeastern University

Sep 2017 – Apr 2018

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

University of Toronto

Sep 2017 - Apr 2018

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

Northeastern University

Jan 2020 – Current

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

Reynolds & Reynolds

Apr 2019 – Aug 2019

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

University of Toronto

Sep 2015 – Apr 2017

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