# JAMES **CHIELLA**

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I am a first-year life sciences student at the University of Toronto interested in neuroscience, biochemistry, and organic chemistry. I have strong academic skills and previous experience with software development. Last summer, I participated in the Focused Ultrasound High School Summer Research program at the Sunnybrook Research Institute, where I gained valuable experience working on an independent project analyzing MR images with MATLAB.

# EXPERIENCE

**SUMMER 2022**

## RESEARCH INTERN, SUNNYBROOK RESEARCH INSTITUTE

- Worked in the Focused Ultrasound lab group (PI: Dr. Kullervo Hynynen) under the supervision of Dr. Ryan Jones, as part of the Focused Ultrasound High School Summer Research Program
- Performed data analysis on quality assurance logs from a focused ultrasound system currently in use at Sunnybrook for the clinical treatment of essential tremor
- Developed a series of MATLAB scripts to perform data analysis, analyzed MRI imaging taken during the procedures, and evaluated overall efficiency of the ultrasound system
- Presented findings on the stability of the focused ultrasound system to lab members (PIs, researchers, and staff)

**SUMMERS 2020 & 2021**

## JUNIOR SOFTWARE DEVELOPER, CPP SOLUTIONS INC.

- Converted legacy application codebase from VB.NET to C#
- Refactored application into independent modules
- Redesigned application to adhere to object-oriented programming methodology
- Developed software payment and licensing system using Python
- Created MSI installer for the application using the WiX Toolset
- Created detailed testing plans and did functional testing on several components of the application

# EDUCATION

**SEPT 2022 – PRESENT**

## BACHELOR OF SCIENCE, UNIVERSITY OF TORONTO

- First year undergraduate student in Life Sciences
- Received the U of T Scholar, Helga and Frank Peroutka, and Johnson entrance scholarships

**SEPT 2018 – JUNE 2022**

## HIGH SCHOOL DIPLOMA, EMILY CARR SECONDARY SCHOOL, VAUGHAN, ONTARIO

- Received the Governor General's Academic Medal, Academic Accomplishment Award, and Director's Achievement Award
- Achieved a Grade 12 overall average of 99%
- Completed STEM stream courses (sciences, advanced functions, and calculus)

# SKILLS

- Knowledge of several programming languages:
  - Strong knowledge of Python, MATLAB, JavaScript, HTML, CSS
  - Working knowledge of C, C#, Rust
- Proficient in Microsoft Office (including Excel)
- Solid understanding of Windows, Linux, Visual Studio Code, Git, GitHub

- Leadership and teamwork
- Organization and planning
- Time management
- Strong oral and written communication
- Detail-oriented problem solver
- Strong work ethic
- Excellent at independent work

# ACTIVITIES

**UNIVERSITY**
- **Secretary of Residence Floor Council:** responsible for taking minutes at meetings where events for the residence floor and/or building are organized
- **Member of the Vic Chorus:** amateur student choir meeting twice per week with biannual performances
- **Part-time job tutoring:** working with Grade 10 and 11 students in math, chemistry, and physics

**HIGH SCHOOL**
- **Music Council executive member:** various administrative roles throughout high school; in last year, as president, led a group of dedicated students from the music department in organizing activities including socials, concerts, talent nights, and field trips
- **Music ensembles:** participated in a wide variety of music ensembles
- **PALS Tutor:** tutored several junior high school students in math and computer science
- **Volunteer work:** volunteered for an independent living facility for low-income seniors, offering tech support for staff and residents, and assisted with the creation of video memorials to celebrate the lives of residents who passed away during the pandemic
- **Independent projects:** completed several small programming projects in a variety of languages in spare time; these can be viewed on my GitHub profile