# **KAROLINA TCHILINGUIROVA**

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Undergraduate computer science student with a background in Earth Sciences and research experience. Research interest include ML applications for solving GNSS positioning problems. Highly skilled and motivated student with a multifaceted background. Demonstrated leadership, problem solving, communication and collaboration skills.

### **TECHNICAL SKILLS**

Languages and Tools:	Python, Java, Bash, C, HTML, CSS, JavaScript Linux, RISC-V, Verilog, MySQL, Git VS Code, Eclipse, Figma, ArcGIS, Microsoft Office tools	
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### EDUCATION

#### **Bachelor of Science in Computer Science**

York University – Toronto, ON Member of the Dean's Honor Roll

#### Relevant Coursework

EECS1015 - Intro to Computer Science (Python) EECS1019 - Discrete Math for CS EECS1022 - Intro to OOP (Java) EECS2030 - Advanced OOP (Java) EECS2021 – Computer Organization (RISC-V / Verilog)

Bachelor of Science with Specialization in Geological Sciences Queen's University – Kingston, ON	Apr 2019
Certificate in Geographic Information Sciences	Dec 2019

Queen's University - Kingston, ON

### EXPERIENCE

### UNDERGRADUATE STUDENT RESEARCHER

York University GNSS (Global Navigation Satellite System) Lab

- Recipient of the Lassonde Undergraduate Research Award.
- Research and apply Machine-Learning algorithms to existing datasets to improve smartphone positioning accuracy.
- Collaborate with Graduate students and Postdoctoral researchers to develop innovative solutions to GNSS positioning problems.
- Work with data science Python packages including Pandas, NumPy, Matplotlib, SciKit-Learn
- Present research project at the 2023 Lassonde Undergraduate Summer Student Research Conference.

#### Expected graduation Dec '24

GPA 3.5

EECS2031 - Software Tools (UNIX Shell, C) EECS3421 – Intro to Databases (MySQL)

EECS2011 - Data Structures (Java)

EECS2001 - Intro to Theory of Computation

Toronto, ON

May 2023 - Current

### SEASONAL TREE PLANTER

Windfirm Resources: Folklore Contracting

- Planted thousands of tree seedling per day throughout deforested areas.
- Gained experience in problem solving by efficiently navigating difficult terrain.
- Excelled in a team based and fast-paced work environment
- Collaborated with forestry professionals to ensure compliance with strict quality standards.
- Participated in team meetings regarding upcoming projects; offered input on effective solutions.
- Maintained accurate records of daily planting activities, including number of trees planted and species type.

#### **CUSTOMER SERVICE REPRESENTATIVE**

Goodlife Fitness

- Responded to telephone inquiries and complaints following standard operating procedures.
- Delivered personalized customer service relating to questions and promptly resolved problems on . customer accounts.
- Developed strong customer relationships and loyalty through effective communication. •
- Handled customer complaints and inquiries in a courteous and efficient manner.

#### **STUDIO REPRESENTATIVE - VOLUNTEER**

Samatva Yoga

- Informed customers on classes and studio memberships.
- Provided efficient and courteous service to customers at all times.
- Assisted with the maintenance of the studio.

### **EXTRA CURRICULARS**

#### **GENERAL EXECUTIVE (EXTERNAL TEAM)**

CSHub - York University's Computing Students Club

- Collaborate and coordinate with other student clubs to organize events and workshops.
- Recruit and communicate with tech-based companies to sponsor club events.

#### **CLASS REPRESENTATIVE FOR EECS 2030**

Bethune College - York University's Peer Leaders

- Act as a liaison between course instructor and students in the classroom.
- Organized and led group study sessions, made class announcements regarding events/workshops/seminars.
- Communicated with the course instructor to discuss feedback received from classmates.

#### SECRETARY

Rock Climbing Club - Queen's University

- Instructed club members on climbing and safety techniques.
- Collaborated with the executive team to organize and lead multiday climbing trips and workshops.

### PROJECTS

#### **Evolutionary Rochambeau**

- A web game built with HTML, CSS and JavaScript. Web app scripted with HTML, CSS, and JavaScript.
- Educational game based on the mating practices of the Common Side-Blotched Lizard which adhere to the rules of rock paper scissors

Live Demo

#### Flora

- Website which recommends ecologically supportive plants for the users' garden based on location. •
- . Frontend built with HTML, CSS, JavaScript; Backend built with Express.
- co:here AI API used to retrieve data

#### Toronto, ON

September 2021 - December 2021

#### Kingston, ON

September 2017 - April 2018

## Toronto, ON

Toronto, ON

January 2023 - April 2023

January 2022 - Present

Kingston, ON

### Personal Project, Dec 2023

September 2017 - April 2019

2015 - 2022

#### ElleHacks 2023

