

Marta Debrina Togatorop

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EDUCATION

University of British Columbia

Vancouver, BC

BSc Combined Major in Computer Science and Physics

Sep. 2022 – May 2026 (expected)

- **GPA:** 3.45/4.0
- **Relevant Coursework:** Quantum Mechanics, Thermal Physics, Software Engineering, Systematic Program Design, Algorithms & Data Structures, Object Oriented Programming in Java, Relativity and Quanta, Mechanics

EXPERIENCE

Undergraduate Research Assistant

May 2024 – Aug. 2024

University of British Columbia, Vantage College

Vancouver, BC

- Researched how AI tools can support student understanding of complex topics in physics.
- Analyzed student time-on-task data using Python (pandas, matplotlib) to identify problem trends.

Undergraduate Teaching Assistant

Sep. 2024 – April 2025

University of British Columbia Faculty of Physics

Vancouver, BC

- Led physics labs using Python/Jupyter for data analysis, coding practice, problem-solving applications.
- Supported students via office hours, Piazza Q&A, and coordinated with instructors/TAs through Slack.

AI & Robotics Summer Program

May 2023 – July 2023

Suzhou Industrial Park Institute of Vocational Technology

Suzhou, China

- Participated in a government-sponsored summer program focused on AI, robotics, and emerging technologies.
- Gained hands-on experience in microcontroller programming, robot mechanics, and basic machine learning.
- Developed practical skills in applying technology concepts to real-world engineering challenges.

PROJECTS & RESEARCH

TasteVan | FlutterFlow, Firebase Auth, Firestore, Cloud Functions v2

2025

- Built a restaurant finder web app in FlutterFlow with login, card-swipe discovery, search filters, and favorites/visited lists.
- Integrated Firebase Auth and Firestore for user accounts, data storage, and user lists.
- Implemented secure API calls to the Yelp Fusion API through Firebase Cloud Functions v2 for restaurant search.

Personal Portfolio Website | React, JavaScript, HTML/CSS, Figma

2025

- Built a responsive portfolio website with React, custom CSS animations, and scroll-based effects.
- Designed UI/UX in Figma and deployed a mobile-friendly site to the cloud.

insightUBC | Javascript, HTML, CSS, Typescript

2024

- Collaborated in an academic course project with two team members, using Agile and Scrum methodologies.
- Built a query engine for UBC course and room data using a TypeScript backend and JavaScript, HTML, CSS frontend.
- Gained practical experience in software engineering principles.

PuppyPal | Java, JUnit, JSON, SWING GUI

2023

- Built a dog management application in Java.
- Managed data reading and writing using JSON objects.
- Implemented both console-based UI and graphical UI with the Java SWING library.

SKILLS & PERSONAL

App Development: FlutterFlow (UI building, custom actions), Firebase Auth, Firestore, Cloud Functions v2

Programming: Python, Java, JavaScript, HTML/CSS, MATLAB, C++

Web/UI: React, Figma, CSS

Workflow & Tools: Agile & Scrum, Git/GitHub, Jupyter Notebook

Personal: Strong problem-solving, critical thinking, adaptability, and passion for physics & technology