

# Marta Debrina Togatorop

236-989-0834 | [martadebrina.dev/](mailto:martadebrina.dev/) | [linkedin.com/marta](https://www.linkedin.com/in/marta) | [github.com/marta](https://github.com/marta)

## EDUCATION

### University of British Columbia

Vancouver, BC

BSc Combined Major in Computer Science and Physics

Sep. 2022 – May 2026 (expected)

- **GPA:** 3.5/4.0
- **Relevant Coursework:** Algorithms & Data Structures, Software Engineering, Object-Oriented Programming (Java), Quantum Mechanics, Computational Physics, Applied Linear Algebra, Probability & Statistics

## EXPERIENCE

### Undergraduate Teaching Assistant

Sep. 2024 – April 2025

University of British Columbia Faculty of Physics

Vancouver, BC

- Guided students through data analysis and coding for physics experiments using Python and Jupyter.
- Explained concepts in computational modeling and signal interpretation during lab sessions.

### Undergraduate Research Assistant

May 2024 – Aug. 2024

University of British Columbia, Vantage College

Vancouver, BC

- Designed and implemented Python algorithms to analyze multivariate datasets of student performance.
- Applied statistical and mathematical modeling to identify trends in learning behavior.
- Created visualizations and reports for research team using matplotlib and pandas.

### 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

### Peerfect | React, FastAPI, MongoDB, Auth0

2025

- Developed a peer-to-peer tutoring web app where students can post requests, get matched instantly, and exchange points instead of money.
- Built the frontend with React (custom design system) and connected to a FastAPI backend with MongoDB for real-time request handling.
- Integrated Auth0 for secure authentication and implemented request validation to prevent self-acceptance.

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

2025

- Built a restaurant finder web app in FlutterFlow with login, 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.

### 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

**Languages:** Python, Java, JavaScript, TypeScript, MATLAB

**Front-end:** React.js, FlutterFlow, HTML, CSS

**Back-end:** FastAPI, Node.js, Firebase, MongoDB

**Tools/Frameworks:** Git, Jupyter, Figma