

# DANIELA GALLEGOS DUPUIS

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## EDUCATION

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**Bachelor of Computer Science**, The University of Victoria

Expected December 2024

**Relevant Coursework and Extracurricular Activities:** Java, Python, C, JavaScript, SQL, Unix/Linux environments

## EXPERIENCE

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**University of Victoria**

*Victoria, BC*

CSC 110: Fundamentals of Programming: I Teacher Assistant

September 2023 - December 2023

CSC 106: Practice of Computer Science Teacher Assistant

January 2023 - April 2023

- Lead a class of 25 students and teaching Python and SQL syntax and logic. Explained classic data structures and algorithms including Prim vs Kruskal Minimum Spanning Tree, Dijkstra vs Floyd–Warshall Shortest Paths.
- Presented a guest lecture to over 100 students about web development, led weekly labs, graded and provided feedback on midterms and assignments.

**Schneider Electric**

May 2022 - December 2022

Firmware Engineering Coop Student

*Victoria, BC*

- Developed effective Python unit automated tests by studying firmware C code for validating and verifying ION9000 and PM8000 Power Meter variants.
- Discovered and reported firmware bugs in Rapid Spanning Tree Protocol (RSTP), and other networking protocols. Actively participated in firmware test planning within an agile continuous integration workflow, including writing test cases, reports, and performing sanity checks.

**Google**

May 2022 - August 2022

Software Product Sprint (SPS)

*Remote*

- Created a dynamic, interactive personal portfolio using Java, servlets, JavaScript, and HTML/CSS that responded to real-time user-generated data.
- Collaborated with a team of peers to design and implement [Posted](#) web application, leveraging various Google Cloud Platform APIs, including App Engine and Datastore, with guidance from a project advisor.

**Massachusetts Institute of Technology**

January 2023

MIT 2023 Reality Hackathon

*Boston, MA*

- Developed a Quest 2 VR product called [ILLE](#), utilizing C# scanline rendering algorithms, exploring tools to address the global rise in mental health illness.
- Collaborated with a diverse group of art, engineering, and psychology students to create a product that promotes self-awareness and reflection.

## PROJECTS

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**Multiple Choice Java Program** Developed a Java multiple-choice test program to study for a programming exam, combining theory and practice.

**Hopp-ing Through History** Created a JavaScript web game "Hopp-ing Through History," an aesthetically pleasing web browser game that educates players about the impact of women in technology to promote gender equity.

**Smooch: Khan Academy** Developed a simple JavaScript web game as my first programming project during high school, sparking my passion for computer science.