

Iddo Sadeh

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Education

University of British Columbia

Bachelor of Applied Science in Biomedical Engineering

- Specialization in bioinformatics (ML and CPSC)

Vancouver, BC

Sept. 2021 – April 2025

Experience

Programming & Math Instructor

Self-Employed

Vancouver, BC

June 2021 – Present

- Provided instruction in Python, Java, C++, and web development to 50+ students
- Guided students preparing for competitive programming and math competitions
- Developed curriculums for AP Computer Science and C++

Data Analyst, Consultant (contractor)

BC College of Nurses and Midwives

Vancouver, BC

Oct. 2023 – Dec. 2023

- Developed and optimized R data pipelines for nursing examination data processing
- Created standardized data collection templates and automated cleaning workflows
- Streamlined data analysis improving processing efficiency

Open Source Learning Facilities Project Assistant

The University of British Columbia

Vancouver, BC

May 2022 – April 2023

- Developed interactive educational dashboards using **Plotly Dash**, serving 500+ students
- Migrated legacy **MATLAB/R** code to **Python**, improving maintainability
- Created comprehensive documentation and testing frameworks for sustainable development

Projects

Smart Swimming Performance Analyzer

BMEG Capstone Project with FORM Swim

2025

- Developed wearable device using **ESP32** and IMU sensors to track swimming performance
- Built data pipeline to validate metrics against commercial alternatives

Text2Typo – AI Typography Generator

Web Application — github.com/IddoSadeh/TypoScop

2025

- Built interactive 3D typography system integrated with OpenAI API
- Created responsive interface using **Three.js** for real-time rendering

Tetris Hebrew Typography

Web Application — github.com/IddoSadeh/alephBetTetris

2024

- Developed custom font rasterization algorithm for TTF/OTF to block conversion
- Implemented 3D visualization using **Three.js**

Medical Treatment Adherence System

BMEG 357 Project

2023

- Built **ESP32**-based data collection system with cloud infrastructure
- Developed **Plotly Dash** dashboards for patient treatment monitoring

Technical Skills

- **Programming Languages:** Python, R, Matlab, C++, Java, JavaScript, HTML/CSS, SQL
- **Web:** Plotly (Dash), Three.js
- **Tools & DevOps:** Git, GitHub, Linux/Bash
- **Embedded & Hardware:** ESP32, microcontrollers, signal processing