Iddo Sadeh

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isadeh.com

Education

University of British Columbia   Vancouver, BC
Bachelor of Applied Science in Biomedical Engineering   *Sept. 2021 – April 2025*
- *Specialization in bioinformatics (ML and CPSC)*

Experience

Programming Instructor   Vancouver, BC
Self-Employed   *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 Scientist   Vancouver, BC
BC College of Nurses and Midwives (contractor)   *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 by 40%

Open Source Learning Facilities Project Assistant   Vancouver, BC
The University of British Columbia   *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   2025
BMEG Capstone Project with FORM Swim
- Developing wearable device using **ESP32** and IMU sensors to track swimming performance
- Building data pipeline to validate metrics against commercial alternatives

Text2Typo – AI Typography Generator   2025
Web Application — github.com/IddoSadeh/TypoScop
- Built interactive 3D typography system integrated with OpenAI API
- Created responsive interface using **Three.js** for real-time rendering

Tetris Hebrew Typography   2024
Web Application — github.com/IddoSadeh/alephBetTetris
- Developed custom font rasterization algorithm for TTF/OTF to block conversion
- Implemented 3D visualization using **Three.js**

Medical Treatment Adherence System   2023
BMEG 357 Project
- 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, Docker
- **Embedded & Hardware:** ESP32, microcontrollers, signal processing