

Iddo Sadeh

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Education

University of British Columbia

Bachelor of Applied Science in Biomedical Engineering

Vancouver, BC

Sept. 2021 – April 2025

- Specialization in bioinformatics with coursework in machine learning, algorithms, and databases

Technical Skills

- **Languages:** Python, JavaScript, SQL, C++, Java, R, HTML/CSS
- **Web & Backend:** Node.js, React, Three.js, Plotly Dash, REST APIs
- **Data & AI:** Pandas, NumPy, PostgreSQL, OpenAI API, ETL pipelines, data visualization
- **Tools:** Git/GitHub, Linux/Bash, Docker, DigitalOcean, Heroku, VS Code

Experience

Freelance Software Developer

Self-Employed

Vancouver, BC

Jan. 2023 – Present

- Built full-stack web applications for clients including interactive 3D visualizations and AI-powered features using OpenAI API with function calling
- Developed automation tools integrating Google Calendar and Gmail APIs for report generation, in production use for 3+ years
- Deployed and maintained applications on DigitalOcean with Node.js backends
- Collaborated with designers to translate creative concepts into functional, responsive websites

Data Analyst, Consultant

BC College of Nurses and Midwives

Vancouver, BC

Oct. 2023 – Dec. 2023

- Automated ETL pipeline: standardized input schemas, optimized data loading, and improved query performance
- Built end-to-end reporting workflow from raw Excel data to formatted R Markdown output
- Performed data validation and quality control on datasets with thousands of records

Open Source Learning Facilities Project Assistant

University of British Columbia

Vancouver, BC

May 2022 – April 2023

- Developed interactive Python dashboards using Plotly Dash for data science education
- Migrated legacy R and MATLAB codebases to Python libraries
- Created technical documentation and instructional materials serving 1,500+ students annually
- Collaborated with faculty and developers using Git/GitHub

Programming & Math Instructor

Yes Education

Vancouver, BC

June 2021 – Present

- Designed curricula for Python, Java, C++, and web development for 100+ students

Projects

AI-Powered 3D Typography Generator

github.com/IddoSadeh/TypoScop

2024

- Web app using OpenAI API function calling to generate real-time 3D text visualizations in Three.js
- Node.js backend deployed on DigitalOcean

Smart Swimming Performance Analyzer

Capstone Project with FORM Swim – github.com/IddoSadeh/FORM24

2025

- Full-stack system: ESP32 firmware → Python GUI → signal processing → visualization dashboard
- Implemented ML-based stroke rate detection from noisy IMU sensor data

Interactive Data Annotation Tool

github.com/IddoSadeh/render_sketch_annotation

2022

- Python Plotly Dash application for image annotation, deployed on Heroku