Iddo Sadeh

iddosadeh@gmail.com — 778-751-9868 — isadeh.com — github.com/IddoSadeh — linkedin.com/in/iddo-s-092174166

Education

University of British Columbia — Vancouver, BC
Bachelor of Applied Science in Biomedical Engineering — *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 — Vancouver, BC
Self-Employed — *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 — Vancouver, BC
BC College of Nurses and Midwives — *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 — Vancouver, BC
University of British Columbia — *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 — Vancouver, BC
Yes Education — *June 2021 – Present*
- Designed curricula for Python, Java, C++, and web development for 100+ students

Projects

Smart Swimming Performance Analyzer — 2025
Capstone Project with FORM Swim – github.com/IddoSadeh/FORM24
- Full-stack system: ESP32 firmware $\rightarrow$ Python GUI $\rightarrow$ signal processing $\rightarrow$ visualization dashboard
- Implemented ML-based stroke rate detection from noisy IMU sensor data

AI-Powered 3D Typography Generator — 2024
github.com/IddoSadeh/TypoScop
- Web app using OpenAI API function calling to generate real-time 3D text visualizations in Three.js
- Node.js backend deployed on DigitalOcean

Interactive Data Annotation Tool — 2022
github.com/IddoSadeh/render_sketch_annotation
- Python Plotly Dash application for image annotation, deployed on Heroku