Iddo Sadeh

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Education

University of British Columbia   Vancouver, BC
Bachelor of Applied Science in Biomedical Engineering   *Sept. 2021 – April 2025*
- Specialization in bioinformatics with extensive coursework in computer science and machine learning

Experience

Freelance Software Developer   Vancouver, BC
Self-Employed   *Jan. 2023 – Present*
- Designed and shipped custom web and visualization tools for artists and small teams
- Built interactive 3D visualizations and AI-assisted features using OpenAI APIs
- Developed and deployed full-stack systems, including backend services and hosting infrastructure
- Built reinforcement learning environments for an early-stage AI startup

Programming & Math Instructor   Vancouver, BC
Yes Education   *June 2021 – Present*
- Designed and taught curricula in competitive programming, object-oriented programming, data science, and web development for 100+ students
- Adapted instruction for students ranging from beginners to early university level
- Mentored students preparing for competitive math and physics competitions

Data Analyst, Consultant   Vancouver, BC
BC College of Nurses and Midwives   *Oct. 2023 – Dec. 2023*
- Automated R-based data pipelines supporting internal reporting and regulatory workflows
- Standardized data schemas and Excel templates for organization-wide data collection
- Generated reproducible R Markdown reports for stakeholders
- Performed data validation and quality control on large administrative datasets

Open Source Learning Facilities Project Assistant   Vancouver, BC
University of British Columbia   *May 2022 – April 2023*
- Created technical documentation for data science courses serving over 1,500 students
- Developed instructional materials including lecture slides, exercises, dashboards, and Jupyter notebooks
- Translated legacy R and MATLAB codebases to Python

Projects

Smart Swimming Performance Analyzer   2025
BMEG Capstone Project with FORM Swim
- Designed and built an ESP32 + IMU wearable device, including circuit design and hardware assembly
- Developed an end-to-end system from raw sensor data to performance metrics
- Implemented algorithms for stroke-rate estimation from noisy in-water sensor data
- Conducted in-water testing to validate system behavior against existing devices

Technical Skills

- **Languages:** Python, JavaScript, C++, Java, SQL, R, HTML/CSS
- **Systems & Tools:** Linux/Bash, Git/GitHub, Docker, VS Code
- **Hardware:** ESP32, IMU sensors, embedded systems