

# Oliver Dantzer

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## EDUCATION

### Queen's University

*Bachelor of Computing (Honours)*  
*Software Design Specialization*

Kingston, ON

*Expected Graduation May 2025*

- Relevant Coursework: *Operating Systems, Software Quality Assurance, Software Architecture, System Level Programming (C), Computer Architecture (C, x86-64 assembly), Software Specifications (C), Data Structures (Python), Linear Data Analysis (MATLAB)*

## WORK EXPERIENCE

### Limestone District School Board

*Learning Technologies Technician*

Kingston, ON

*Jun 2022 - Sep 2022*

- Conducted crucial organization, repairs, and updates on 1000+ devices across the school board as part of a skilled team to facilitate their rollout before the next academic year.
- Implemented a comprehensive survey of the school board's technology infrastructure, identifying critical needs of technology for students.

## PROJECTS

### Revolution.Physio | <https://revolution.physio/> | *TypeScript, Next.js, Tailwind CSS*

*Jul 2023 - Aug 2023*

- Developed a website that integrated with the headless CMS *Sanity.io*, hosting the editor on the front-end, allowing the client to edit the website whenever they need to by simply signing in at a webpage.
- Fetched content from *sanity.io* to render on pages. Set up a webhook from *Sanity.io* to trigger revalidation of data on frontend, such that upon the client publishing changes to the content in the CMS, the website's content will update.
- Developed a serverless function deployed on *Vercel* to send an email to the client after receiving HTTP POST request to website API from the frontend's contact form. Used reCAPTCHA v3 to protect against bot submissions.
- Consulted with the client in each stage of development to create and refine requirements and to ensure satisfaction with both functionality and visual design.

## COMPETITIONS

### Queen's Tech and Media Association - Product Series | [Source Code - Github](#)

*Mar 2023*

- Developed a music generation demo with *Python*, using the package *scikit-learn*.
- Coordinated with a team of business analysts to create an AI-based music generation web app pitch.
- Won the award for best design in a competition for the best web app pitch.

## CLUBS

### inQUbate

*Software Engineer and Tech Analyst*

Kingston, ON

*May 2023 - Present*

- Developed app as a team, used React Native frontend, and Express.js backend that used Azure Speech to Text REST API and OpenAI API to allow real-time conversation between user and AI and subsequently produce an evaluation on pronunciation and sentence structure.
- Won the startup pitch competition in Camp QMIND for our AI-powered language learning app pitch.

## SKILLS

**Programming languages:** *Python, JavaScript, Java, C, C++, C#, TypeScript, SQL, MATLAB, Bash, Haskell, Prolog, x86-64 Assembly*

**JS Frameworks:** *Next.js, React.js, Express.js, React Native*

**Web Technologies:** *HTML5, CSS3, Tailwind CSS, GraphQL*

**Database Management Systems:** *MongoDB, MySQL*

**Dev tools:** *Git, Docker, Visual Studio, Eclipse, VS Code, PyCharm*

**Other Technologies:** *JSON, XML, Microsoft 365*

**Python Libraries:** *NumPy, Pandas, Tensorflow, scikit-learn, Pygame, Matplotlib*

**Languages:** *Fluent in English; Intermediate in French*