# Oliver Dantzer

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## EDUCATION

**Queen's University**                                                                                                Kingston, ON
*Bachelor of Computing (Honours) Software Design Specialization*                          *Expected Graduation May 2025*

- Clubs: QMIND, inQUbate
- 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)

## PROJECTS

**Revolution.Physio** | https://www.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 in a secure route, 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 frontend API from browser's contact form. Used reCAPTCHA v3 to protect against botted form 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.

## EXPERIENCE

**inQUbate**                                                                                                                Kingston, ON
*Tech Analyst, Software Engineer*                                                                            *May 2023 - Present*

- Co-founded SpeakEase, an AI language-learning app that includes a chatbot and multiplayer games.
- Led team of 2 developers to develop an MVP. Used *React Native* with an *Express.js* backend that used Azure Speech to Text REST API and OpenAI API to allow real-time spoken conversation between user and AI and subsequently produce an evaluation on pronunciation and sentence structure.
- Won the startup pitch competition in Camp QMIND. Planning to pitch at the annual WCC for funding.

**Limestone District School Board**                                                                          Kingston, ON
*Learning Technologies Technician*                                                                        *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.

## 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

## COMPETITIONS

**Queen's Tech and Media Association - Product Series** | Source Code - Github                    *Mar 2023*

- Developed a music generation demo with *Python*, using the library *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.