

# Oliver Dantzer

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## EDUCATION

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### Queen's University

*Expected May 2025*

Bachelor of Computing (Honours) Software Design Specialization

- Clubs: inQUbate - Tech Analyst

## EXPERIENCE

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### Queen's University, Kingston, ON

*Jan 2024 - Present*

Computer Architecture Teaching Assistant

- Conducted biweekly office hours to help students understand difficult concepts and complete assignments.
- Worked under Professor Hesham Elsayw and collaborated with a team of 8 teaching assistants for grading and improving instructional material.

### Limestone District School Board, Kingston, ON

*Jun 2022 - Sep 2022*

IT Technician

- Developed 2 automation tools using Python and streamlined many repetitive business tasks.
- Assisted in the repair program of 1000+ devices across the school board as part of a skilled team of IT workers to facilitate rollout.
- Created various data visualizations to support management using Power BI.

## PROJECTS

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### SpeakEase

*Sep 2023 - Present*

- Used React Native and Expo with an Express.js backend to develop a language-learning application that won inQUbate's startup pitch competition in Camp QMIND.
- Leveraged Azure Speech to Text REST API and OpenAI API to facilitate real-time spoken conversations between users and an AI chatbot while evaluating pronunciation and sentence structure.

### Revolution.Physio | [revolution.physio](https://revolution.physio) | TypeScript, Next.js, Tailwind CSS, Sanity.io CMS

*Jul 2023 - Aug 2023*

- Used Next.js to develop a new website ([revolution.physio](https://revolution.physio)) for a physiotherapy clinic that allows the client to make live edits to the website.
- Enhanced UI/UX and SEO strategies, resulting in an increase of monthly visitors from 380 to 794 and boosting Google search impressions from 230 to 339 after 4 months.

## SKILLS

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**Programming languages:** Python, JavaScript, Java, C, C++, TypeScript, SQL, Bash

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

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

**Dev tools:** Git, Docker, Visual Studio

**Database Management Systems:** MongoDB, MySQL

**Other Tools:** Excel, Power BI

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

## COMPETITIONS

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### QHacks | [github.com/JosephLiao542211/Qhacks-2024-DeerJournal](https://github.com/JosephLiao542211/Qhacks-2024-DeerJournal) | Typescript, Express.js, Expo, Python

*Feb 2024*

- Collaborated with a team of 3 other developers to ideate and create a fully functional mobile app.
- Implemented image generation, text-to-speech, and HTTP requests between the frontend and backend.
- Achieved top 5 overall in the hackathon among 57 teams and 243 participants.

### QTMA Product Series | [github.com/oliverdantzer/music-generation](https://github.com/oliverdantzer/music-generation) | Python

*Mar 2023*

- Developed an AI 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.