Oliver Dantzer

Toronto, ON | +1 (343) 364 8204 | oliver.dantzer@queensu.ca

linkedin.com/in/oliverdantzer | github.com/oliverdantzer | oliverdantzer.me

---

EDUCATION

Queen's University   Kingston, ON

Bachelor of Computing (Honours) Software Design Specialization   *Expected Graduation May 2025*

- Clubs: QMIND, inQUbate

PROJECTS

Revolution.Physio | https://www.revolution.physio/ | *TypeScript*, *Next.js*, *Tailwind CSS*   *Jul 2023 - Aug 2023*

- Developed a website with Next.js hosted on Vercel, seamlessly integrated with the headless CMS *Sanity.io*.
- Implemented the CMS editor on the website in a secure route, allowing the client to easily edit the website's content.
- Created 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.
- Collaborated with the client in each stage of development to refine requirements for functionality and UI/UX.

EXPERIENCE

Queen's University   Kingston, ON

Undergraduate Teaching Assistant   *Jan 2024 - Present*

- Working under Professor Hesham ElSawy in facilitating the course Computer Architecture for 230+ students.
- Collaborating closely within a dynamic team of 8 teaching assistants and the professor to ensure accurate and timely grading of assignments and tests, actively engaging in team meetings to revise and improve instructional materials.
- Conducting biweekly office hours, providing clear explanations of course concepts and offering assistance to students with assignments.

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.
- Won the startup pitch competition in Camp QMIND. Planning to pitch at the annual WCC for funding.
- Leading a team of 2 developers to develop an MVP using *React Native* and *Expo* with an *Express.js* backend.
- Leveraging Azure Speech to Text REST API and OpenAI API to facilitate real-time spoken conversations between users and AI while evaluating pronunciation and sentence structure.

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.