Oliver Dantzer

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EDUCATION

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

- 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   *Jan 2024 - Present*
Undergraduate Teaching Assistant

- 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 (Club), Kingston, ON   *May 2023 - Present*
Tech Analyst, Software Engineer

- 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   *Jun 2022 - Sep 2022*
Learning Technologies Technician

- 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, Power BI*

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 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.