Tobias Livadariu

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EDUCATION

University of Waterloo   Expected April 2029
BSE in Software Engineering (Honours) — CGPA: 91.67/100   *Waterloo, ON*
Relevant Coursework: Object-Oriented Programming, Functional Programming, Linear Algebra, Calculus, Digital Circuits

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, C++, C, Python, Ruby, SQL, HTML, CSS, SCSS, PHP
Libraries: React, Redux, RTK, Node, Express, .NET, Flask, Laravel, Bootstrap/Tailwind, Vite, AJAX, EF Core, LangChain
Tools: Git, Azure (Blob, VM, CosmosDB), Docker, MySQL, MongoDB, WordPress (ACF, Sage), Figma, Ollama, Copilot

EXPERIENCE

Software Developer   May 2025 – August 2025
IdeaNotion Development Inc.   *Markham, ON*
DealerAI Admin Portal   *React, TypeScript, Tailwind, Redux, C#, .NET, OpenAI API, SQL, CosmosDB*
- Developed an AI-powered conversation summarization tool using **React**, **OpenAI API**, and a **.NET backend**, reducing manual review from **6 – 10 mins per chat** to **less than 40 secs** across **4500+ daily conversations**
- Revamped the RAG knowledge base page in **React/Redux** with a responsive **table of contents** and data-saving fixes, cutting **reported save errors to 0%** and speeding workflows for **150+ client dealerships** in Canada
- Built backend controllers in **C#/.NET** with **Azure CosmosDB** to persist user settings beyond session storage, saving **400+ dealership staff 1–2 mins per login** across **thousands of sessions** by eliminating repeated reconfiguration
- Developed a Markdown editor, adopted by the lead AI developer, enabling **30% faster** prompt formatting
- Resolved **35+ frontend bugs** and **4** client support requests, contributing to an **18% drop in reported issues**

Food Banks Canada Main Website   *PHP, Laravel, Sage, WordPress, SCSS, Bootstrap*
- Built **15+ reusable ACF blocks** with **PHP/Laravel/WordPress**, simplifying creation of consistent page layouts
- Overhauled over **20 pages** across English and French to match **Figma designs**, implementing responsive layouts, refined typography, and consistent styling to ensure a polished and accessible cross-language user experience
- Upgraded sliders to **SwiperJS**, fixed maps, and refined form styling, enhancing site stability and performance

Food Banks Canada Admin Portal   *React, TypeScript, Tailwind, RTK Query, C#, .NET, EF Core, SQL*
- Transitioned **5** legacy admin data tables into a modern **Material React Table** UI, replacing outdated rigid table structures with responsive designs and persistent state, reducing workflow steps for client administrators by **30%**
- Migrated and refactored **5 C#/.NET controllers**, **62 endpoints**, and **55 DTO classes**, using **EF Core** to build optimized **SQL** database queries and serve structured data via API endpoints for safe and consistent data transfer
- Developed **5 RTK Query APIs** in **TypeScript** providing cached, type-safe data access between frontend and backend
- Implemented robust **server-side filtering** and **drag-and-drop reordering** in multi-tab forms, reducing data fetch delays and decreasing manual data entry errors, resulting in **greater operational efficiency**
- Refactored backend **file upload services** to use the latest **Azure SDK**, increasing maintainability

PROJECTS

🔗 **CodeSpeak** | *React, Tailwind, Node.js, Flask, SQLAlchemy, Gemini API, Google Cloud*   March 2025
- Created an **intelligent IDE** for visually impaired users leveraging **Gemini API** and a neural network verifier
- Built a **React** frontend with keyboard navigation and audio feedback via **Google TTS** and **Flask+Express**

🔗 **BinThere.ai** | *React, Flask, Streamlit, YOLO, Roboflow, OpenAI API*   January 2025
- Built waste-sorting tool with **YOLO+Roboflow** image detection and **OpenAI API** disposal suggestions
- Embedded **Streamlit/Flask** services for real-time analysis, impact tracking, and gamified stats

🔗 **Lights On** | *React, TypeScript, Tailwind, Node.js, Express, MongoDB, Azure*   Dec 2024
- Built a timed puzzle game with leaderboards using **React**, **Node.js/Express** and **MongoDB Atlas**
- Deployed on **Azure Ubuntu VM** as systemd services, configuring ports and security groups for reliable hosting

🔗 **Calcium Clicker** | *Python, Flask, SQL, AJAX*   August 2024
- Developed an incremental game in **Flask**, using **SQL** and **AJAX** for persistence and dynamic DOM updates

🔗 **Tank Tactician** | *Python, Pygame*   June 2024
- Built a 2D tank battle game in **Pygame** with enemy AI, projectile physics, and responsive controls