

# Aleksandar Dubljevic

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## EDUCATION

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<b>University of Waterloo</b> <i>Bachelor of Computer Science</i>	Sept. 2023 – Sept. 2028 Waterloo, ON
<b>Wilfrid Laurier University</b> <i>Bachelor of Business Administration</i>	Sept. 2023 – Sept. 2028 Waterloo, ON

## EXPERIENCE

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<b>Software Engineer - Dashboard Lead</b> <i>University of Waterloo Formula Electric</i>	Sept. 2023 – Present Waterloo, ON
<ul style="list-style-type: none"><li>Led the development of an internal dashboard for live telemetry, enabling team members to monitor real-time performance from over 150 data sources, eliminating the need to restart the vehicle to view sensor data</li><li>Enhanced sensor data readability and transfer rate by over 500% by designing and implementing a data pipeline</li><li>Ensured timely development and deployment of team software by utilizing SDLC and Agile methodologies for effective project management, leading to increased team velocity and a 35% reduction in work-in-progress tasks</li><li>Collaborated with over 100 team members by utilizing Atlassian Suite (Jira, Confluence, Bitbucket) to manage workflows, coordinate resources, and track project progress across more than 10 cross-functional teams</li></ul>	
<b>DECA Chapter President</b> <i>Ursula Franklin Academy</i>	Sept. 2021 – June 2023 Toronto, ON
<ul style="list-style-type: none"><li>Achieved 3-time provincial finalist and medalist status (Top 10 in Ontario) in business finance event</li><li>Mentored 40+ students on key DECA skills including case analysis, presentation skills, and critical thinking</li></ul>	

## PROJECTS

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<b><u>Dime Defender</u>   Hack the North 2024 Finalist</b> — <i>AWS, Svelte, Voiceflow, GenAI</i>	Sept. 2024
<ul style="list-style-type: none"><li>Voted 1st place among 800+ participants at Hack the North 2024 (Canada's largest hackathon) by developing a Chrome extension that helps users reduce impulsive spending through AI-driven insights powered by OpenAI API</li><li>Architected a scalable AWS serverless backend (Lambda, API Gateway) that supported over 75 concurrent users, achieving sub-500ms response times through API request optimizations like pagination and payload compression</li><li>Led a team of 4 developers to deliver a production-ready MVP in 36 hours, coordinating development across frontend, backend, and AI components while using GitHub for version control</li><li>Utilized advanced prompt engineering techniques to deliver high quality AI responses to the user</li></ul>	
<b><u>MpoxMap</u>   Ignition Hacks 2024 Winner</b> — <i>Typescript, React, Next.js, HTML/CSS</i>	August 2024
<ul style="list-style-type: none"><li>Developed MpoxMap, a web application using Next.js 14 and React that monitors global Mpox outbreaks using 3D data visualizations, displaying real-time and historical data, keeping users informed on the latest outbreaks</li><li>Implemented API caching optimizations to reduce redundant calls to TheNewsAPI and Mapbox API, improving page load times by 200%, resulting in a smoother user experience and reduced API costs</li><li>Deployed to web with Vercel serverless architecture, allowing for seamless updates to data sources</li></ul>	
<b><u>GameWave</u>   Java, PostgreSQL, Replit</b>	March 2023 – June 2023
<ul style="list-style-type: none"><li>Constructed a full-stack mock video game marketplace using Java Swing, with features such as login/signup, leaving reviews and searching/filtering for games</li><li>Implemented a content-based filtering recommendation algorithm that analyzed user preferences to suggest games, in combination with a PostgreSQL database used to efficiently store and retrieve user data</li><li>Integrated secure user authentication with SHA-256 hashing to safeguard sensitive user info through data masking</li></ul>	
<b><u>UWFE Dashboard</u>   Python, CAN, Figma, FreeRTOS, Linux</b>	Jan 2023 – Current
<ul style="list-style-type: none"><li>Designed and developed a custom driver dashboard for the 2024 University of Waterloo Formula Electric team using Python, Figma and Linux, enhancing vehicle data visibility for drivers during competitions</li><li>Enabled real-time data exchange between the dashboard and the car ECU's by integrating CAN bus communication, improving the depth of performance metrics while also simplifying the debugging process</li><li>Deployed and tested dashboard software on a standalone Beaglebone Black running Debian Linux</li></ul>	

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, Typescript, HTML/CSS, SQL, Svelte, Shell Script

**Frameworks:** React, Node.js, Next.js, FreeRTOS, TCP/IP, AWS, Azure, Agile, SDLC

**Developer Tools:** Git, Docker, Tableau, Atlassian Suite, VS Code, Power BI, MS Office, Terraform, Excel, GenAI

**Case Competitions:** Snap Inc. Xlerate (Finalist), BDO Future Leaders, Parachute Consulting