Nicholas Leduc

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Education

Bachelor of Computer Science, Software Engineering Stream, *Carleton University* — 09/2020 – present — Ottawa, Canada
- Fourth-year standing; 10.71/12 (A-) CGPA, 11.21/12 (A) Major CGPA
- Dean's Honors List: All Preceding Semesters
- Expected Graduation April 2025

Professional Experience

Full Stack Software Developer, *House of Commons ~ Co-op/Internship* — 01/2024 – 08/2024
- Developed and maintained ASP.NET web apps utilizing the MVC design pattern alongside jQuery, AJAX, and Bootstrap to build new features and resolve accessibility/usability bugs, improving user experience on 10+ applications.
- Utilized Entity Framework Core and LINQ to efficiently access data from SQL databases, ensuring smooth data retrieval within .NET Web API services.
- Managed Web Apps, Web Application Fire Walls, and Key Vaults within the Microsoft Azure Cloud Portal, ensuring efficient resource handling.

Automation Software Developer, *House of Commons ~ Co-op* — 05/2023 – 12/2023
- Leveraged Robot Framework to build automation scripts and regression tests, increasing efficiency in manual processes.
- Successfully led the entire research, design, architecture, and development process of the project.
- Developed comprehensive documentation including READMEs, build books, release notes, and user documentation.

Full Stack Software Developer, *TutorOcean/QuadC ~ Co-op* — 04/2022 – 12/2022
- Developed REST API endpoints using Node.js to efficiently query for data from a MongoDB database.
- Re-created numerous web pages utilizing React and Next.js resulting in significant improvements in SEO and page speed through SSR.
- Developed feature enhancements and resolved bugs on the platform using React.js and styling with Tailwind CSS.
- Automated REST API and UI regression tests using Robot Framework to ensure maintainability with the evolving software.

Projects

Full Stack Parking Management Application - Hackathon Winner, *Park Flow* 🔗
- Collaborated with a co-op student to secure first place in the House of Commons Hackathon with an innovative parking solution.
- Developed the web application using the MVC Clean Architecture design pattern with ASP.NET Core framework.
- Successfully implemented the Google Places and Photos APIs to retrieve parking lot information, allowing user's to search based on location.
- Designed a secure login system utilizing SQL and Entity Framework Core for user account management within the application.

Full Stack Time Management Application, *TwoDue* 🔗
- Designed the front end by constructing components using React and Next.js while styling it with Tailwind CSS
- Engineered the back-end utilizing the built-in Next.js API to create various end-points to query for appropriate data from the MongoDB database
- Utilized Mongoose to establish schemas across various collections for consistent data management and preservation
- Developed a login system leveraging Next Auth, fortified with strong password hashing techniques, ensuring users can confidently safeguard and manage their data within an account-based system

Contracted Website, *Krew Home Inspectors* 🔗
- Collaborated with two colleagues to develop a front-end website for a client, utilizing React.js and Next.js frameworks to deliver a highly optimized and performant user interface
- Successfully enhanced the site's SEO by strategically adding appropriate meta data to each page and submitting sitemaps to search engines, improving discoverability and optimizing the indexing process
- Demonstrated strong project management skills by organizing and conducting weekly meetings with the client and team members, fostering collaboration and ensuring alignment on goals and objectives

Technical Skills

Programming Languages
C#, JavaScript, HTML, CSS, Python, C++, Java, TypeScript, Robot Framework

Database and Data Management
Microsoft Azure Portal, Entity Framework, MongoDB, Mongoose, SQL, REST-API, LINQ, API Testing

Programming Libraries and Frameworks
.NET, MVC, Bootstrap, React.js, Next.js, Tailwind CSS, Robot Framework, jQuery

Version Control and Collaboration
Git, Github, GitLab, Scrum Agile Framework, Jira, Microsoft Azure Dev Ops, Asana, Microsoft Teams