Nicholas Leduc

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EDUCATION

Bachelor of Computer Science (Honours), Software Engineering Stream, *Carleton University* 09/2020 – present
- Fourth-year standing; 3.74/4 GPA - 10.70/12 CGPA
- Dean's Honors List: All Preceding Semesters
- Expected Graduation: April 2025

PROFESSIONAL EXPERIENCE

Full Stack Software Developer, *House of Commons - Co-op (8 months) & Contract Part-time (8 months)* 01/2024 – 04/2025
- Developed ASP.NET MVC web applications using object-oriented C#, jQuery, SASS, and Bootstrap to implement new features, improving functionality and user experience across 10+ web applications.
- Resolved accessibility and usability bugs across 10+ web applications, improving overall usability and ensuring compliance with WCAG accessibility standards.
- Optimized data retrieval in .NET Web API services by utilizing LINQ and SQL Server for efficient access to SQL databases, leading to the creation of new endpoints.
- Handled App Services, Application Fire Walls, and Key Vaults within the Microsoft Azure Cloud Portal, allowing for efficient resource handling.
- Managed CI/CD pipelines to automate feature branch deployments, improving the development workflow and enabling faster releases.

Automation Software Developer, *House of Commons - Co-op (4 months) & Contract Part-time (4 months)* 05/2023 – 12/2023
- Leveraged Robot Framework and SikuliX to build a set of UI-based automation scripts from scratch, significantly increasing efficiency by automating previously manual processes, reducing time spent on repetitive tasks.
- Led the end-to-end research, design, architecture, and development of the project, ensuring successful delivery through careful planning and execution.
- Developed comprehensive documentation, including READMEs, build books, release notes, and user manuals, ensuring clear guidance and support for end-users and development teams.

Full Stack Software Developer, *TutorOcean/QuadC - Co-op (8 months)* 04/2022 – 12/2022
- Developed features and resolved bugs on the platform using React.js and Tailwind CSS, while also creating REST API endpoints with Node.js to efficiently query data from a MongoDB database
- Re-created numerous web pages using React and Next.js, implementing Server-Side Rendering to significantly improve SEO and page speed, enhancing overall user experience and site visibility.
- Automated REST API and UI regression tests using Robot Framework and Selenium, improving test coverage and ensuring maintainability of evolving software, which resulted in a 50% increase in the test suite.

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 a solution that allows users to book parking spots and share their own spots for others to reserve.
- Developed an ASP.NET web application using the MVC Clean Architecture design pattern and integrated Google Places and Photos APIs, enabling users to search for parking spots via an interactive map or manual address input.
- Designed a secure login system using Entity Framework Core for user account management, while storing entities such as users, parking spots, and parking garages in a SQL database to support application functionality.

Full Stack Time Management Application, *TwoDue* ⧉
- Developed a Next.js and React web application, allowing users to create boards for task management, add tasks within boards, and organize workflows further by creating sub-tasks.
- Designed a backend API using Next.js's built-in API routes, leveraging MongoDB with Mongoose for consistent schema management, enabling users to securely save and manage their progress.
- Developed a login system leveraging Next Auth, fortified with strong password hashing techniques, ensuring users can confidently safeguard their data within an account-based system.

Contracted Website, *Krew Home Inspectors* ⧉
- Collaborated with two developers to develop a web app for a client, utilizing Next.js to deliver a highly optimized and performant platform.
- Developed a booking notification system using the EmailJS API to automatically notify the client with relevant details whenever users request an inspection.
- Successfully enhanced the site's SEO by strategically adding 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, SASS), Java, Python, C++, TypeScript

Programming Libraries and Frameworks
ASP.NET, Bootstrap, React.js, Next.js, Java Spring Boot, Tailwind CSS, jQuery, Robot Framework, Selenium

Database and Data Management
Microsoft Azure Portal, Entity Framework, MongoDB, Microsoft SQL Server, Mongoose, Studio 3T, SQL, REST, LINQ

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