

# Nate MacLeod

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## SKILLS

### LANGUAGES

C • C++ • Python • Java • Kotlin • HTML • CSS • JavaScript • TypeScript • Bash • SQL • LaTeX

### TECHNOLOGIES, FRAMEWORKS, TOOLS, AND PLATFORMS

Vue • React • Node.js • Git • GitHub • Visual Studio Code • Firebase • Windows • Linux • Android Studio • MongoDB • AWS Express.js • JSF • Selenium • Playwright

## WORK EXPERIENCE

**D2L CORPORATION** | SOFTWARE DEVELOPER CO-OP | JAVASCRIPT, REACT, NODE.JS, EXPRESS.JS, PLAYWRIGHT, AWS  
September 2023 – December 2023 | Kitchener, ON, Canada

- Designed and developed several web app prototypes for possible future D2L features as a member of the D2L Labs team
- Created multiple experimental full-stack React applications that employ generative artificial intelligence, including a guided course creator and a rubric designer, and incorporated feedback from instructional design experts
- Built a browser extension and an AWS Lambda to automate parts of D2L's accessibility audit process with Playwright, greatly reducing the amount of time and work needed to carry out these audits

**NCR CORPORATION** | FULL-STACK SOFTWARE DEVELOPER | JAVA, JAVASCRIPT, REACT, JSF, SQL  
January 2023 – April 2023 | Waterloo, ON, Canada

- Developed new features and fixes for the NCR Passport web application as a member of a small Agile team
- Collaborated with team members to refactor an existing SOAP API into a JSON-based REST API, improving efficiency and reducing overhead
- Applied various optimizations to the project's Maven build process to reduce its build time by over 75%, and fixed over 200 broken Jest unit tests in the React application

**CTRL V INC.** | VR SPECIALIST  
August 2020 – December 2022 | Waterloo, ON, Canada

- Worked with a small team to provide customers with exceptional virtual reality experiences in Canada's first VR arcade
- Planned and executed solutions to technical issues quickly, often under pressure, in both independent and team-based settings, responding 2 times faster than the overall company average
- Interacted with customers of all ages, as well as with large groups, in a professional yet approachable manner, resulting in high levels of customer satisfaction

## PROJECTS

**WATLINK** | VUE, JAVASCRIPT, CSS, FIREBASE | GITHUB REPOSITORY  
2022

- A web application enabling University of Waterloo students to find groups for studying, social events, or anything else
- Uses the Firebase API, including the Authentication and Firestore services, to securely organize user accounts and data

**SMARTSTEPS** | KOTLIN, SQL, ANDROID STUDIO | GITHUB REPOSITORY  
2021

- An Android Wear step tracker app that determines daily goals based on a user's walking habits
- Uses current Android best practices including Jetpack Compose for UI and a Room SQLite database for data storage

## EDUCATION

**UNIVERSITY OF WATERLOO** | SEPTEMBER 2021 - 2026 (EXPECTED) | WATERLOO, ONTARIO, CANADA  
Program: Bachelor's of Mathematics, Computer Science (BMath CS)

**Cumulative GPA: 95%**

Relevant Courses: Elementary Algorithm Design and Data Abstraction (**C**), Introduction to Object-Oriented Programming (**Bash, Linux, C++**), Logic and Computation, Data Structures and Management (**C++**), Foundations of Sequential Programs (**C++**), Algorithms (**C**), Operating Systems (**C**)