Nate MacLeod

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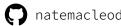
SKILLS

LANGUAGES

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

TECHNOLOGIES, FRAMEWORKS, TOOLS, AND PLATFORMS

Vue • React • Node.js • Express.js • Git • GitHub • Visual Studio Code • Firebase • Windows • Linux • Android Studio • AWS MongoDB • 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 full-stack React/Express 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**)