

# Aditya Nair

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Bachelor of Applied Science in Computer Engineering*

09/2024 – 04/2029

- President's Scholarship of Distinction worth **\$5000**
- Relevant Courses: Engineering Design and Practices, Software Project Studio, Data Structures and Algorithms
- 3.8/4.0 GPA

## EXPERIENCE

### Software Engineering Intern

01/2025 – 04/2025

*The Nationwide Group (TNG)*

Markham, ON

- Built a **Next.js** dashboard in **TypeScript** to automate **MySQL** data pipeline reports, **improving weekly efficiency by 12%** while adding **Playwright** tests for reliability.
- Engineered a **Dockerized REST API in Java Spring Boot** and integrated it with a **Redis** cached **Next.js** dashboard, enabling users to interactively modify a **MySQL** database and reducing **weekly task completion time by 18%**.
- Contributed to the server migration from **Windows Server 2008** to **Linux Ubuntu** by developing, **JUnit** testing, and debugging a **Java EE 8** module utilizing **Apache Tomcat**.
- Collaborated on a **Spring Boot** application with **Thymeleaf templating** and **OpenAPI/Swagger documentation** to interface with **AWS S3 buckets** for cloud-based file storage and retrieval.
- Executed **100+ manual testing cases** for JasperReports Server v6 to v8 migration, **uncovering 15+ issues**.

### Web Developer

07/2024 – Present

*EmpowerED*

Toronto, ON

- Introduced server-side rendering (SSR) and static site generation (SSG) using **Next.js with React.js**, **improving SEO rankings** and **decreasing initial load times by 21%**.
- Integrated a **Figma prototype** into a functional React.js component and **resolved site issues within 24 hours**.

## PROJECTS

### Well Note 🧘 | *C#, ASP.NET Core MVC, SQL Server, Entity Framework Core, xUnit, Azure, Docker* 09/2024

- Developed a xUnit tested ASP.NET Core MVC web application that enables users to log and track daily health metrics such as water intake and sleep
- Designed a SQL Server database schema and utilized Entity Framework Core for streamlined CRUD operations
- Deployed the Docker container to Microsoft Azure, utilizing Azure App Services and Azure SQL Database

### Eco Hub 🌱 | *PostgreSQL, Express.js, React.js, Node.js, Cypress, Jest, Jenkins, Github Actions* 08/2024

- Architected an interactive Power BI dashboard to visualize and analyze key data metrics from a cloud-hosted PostgreSQL database enabling real-time insights and trend analysis
- Developed RESTful APIs with Node.js and Express.js to integrate the frontend and handle user interactions
- Integrated Jenkins CI/CD with GitHub Actions for Cypress and Jest testing before Vercel deployment

### Hospital Management System 🏥 | *Flask, Python, HTML, Bootstrap CSS, PyTest, Selenium, Sqlite* 07/2024

- Created unit tests using PyTest for backend logic and integrated Selenium for automated UI testing
- Developed server-side logic using Flask to handle data processing and middleware logic
- Implemented user authentication and session management using Werkzeug's secure password hashing utilities

## SKILLS

**Languages:** Java, Python, HTML, CSS, SQL, JavaScript, TypeScript, C, C++, C#, Bash, XML

**Frameworks:** React.js, Node.js, Express.js, Next.js, Three.js, Django, Flask, FastAPI, .NET, Spring

**Databases:** MongoDB, MySQL, PostgreSQL, Sqlite, SQL Server, Prisma, Redis

**Developer Tools:** Visual Studio, Eclipse, IntelliJ, GitHub, Git, Figma, Postman, Linux, Windows, macOS, Jira

**Testing:** JUnit, Jest, Playwright, Cypress, xUnit, Selenium, PyTest

**DevOps:** Maven, Azure, AWS, Docker, Kubernetes, Jenkins, Github Actions