

# Neil Sachdeva

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## EDUCATION

BASc, Computer Engineering, University of Waterloo

Expected Graduation 2026

- Relevant Coursework: Data Structures and Algorithms (C++), Discrete Mathematics

## SKILLS

Programming Languages

JavaScript, Python, Groovy, C++, Java, C#

Technologies

React, Node.js, SQL, MongoDB, Selenium, Django, Azure, Docker, Kubernetes, AWS

## WORK EXPERIENCE

Software Developer Intern, Data Science

Martinrea Int.

Sep 2023 — Dec 2023

Vaughan, ON

- Orchestrated automated testing with JMeter and Groovy for Martinrea’s Dashboard, conducting 100+ comprehensive tests for REST APIs, guaranteeing robustness, performance, and scalability.
- Developed TCP and UDP client/server console apps in Node.js for performance analysis, boosting data throughput by 20% via optimized implementations with improved networking algorithms and data handling.
- Used SQL for thorough database validation in the Dashboard, confirming data integrity by checking conformity to specified constraints and rules, and achieving a 98% accuracy rate, enhancing overall software reliability.

Software Developer Intern, Startup Team Member

DiamondX

Jan 2023 — Apr 2023

Waterloo, ON

- Spearheaded full stack development, integrating React.js for dynamic and responsive frontend interfaces.
- Implemented Redux for streamlined state management, ensuring predictability and reducing errors by 15%.
- Engineered a scalable serverless backend using Firebase, contributing to a 30% improvement in application scalability.
- Seamlessly integrated the Stripe API, optimizing payment processing and reducing checkout time by 25%.

## PROJECTS

ToDoFrenzy | React, Node.js, Express.js, MongoDB, Materialize

Mar 2023 - Apr 2023

- Engineered a dynamic Todo list application with the MERN stack for comprehensive task management powered by a back-end REST API using Node.js, Express.js, and Axios for seamless CRUD operations.
- Established dynamic UI updates using React Hooks and JSX, allowing users to track tasks in real-time and providing a smooth user experience.
- Deployed MongoDB as the database backend, ensuring efficient and scalable data storage and retrieval.

FunFlix | React, Firebase, Stripe API, Redux

Nov 2023 - Dec 2023

- Spearheaded the development of FunFlix, an immersive application resembling Netflix’s interface, delivering extensive movie insights and captivating fun facts. Crafted using React.js and powered by the dynamic functionalities of Firebase.
- Integrated the Stripe API to ensure secure and seamless payment processing, and implemented Redux for optimized state management, resulting in a more organized and scalable application structure.
- Significantly accelerated data retrieval with Cloud Firestore, ensuring faster browsing. Optimized app loading times through Firebase Hosting.

TheGram API | Python, Django, Django Rest Framework

Jul 2023 - Sep 2023

- Engineered TheGram API, replicating essential Instagram features like user authentication, posts, likes, and comments using Django and Django Rest Framework, ensuring a highly responsive and scalable API structure.
- Implemented backend functionalities resulting in an optimized data retrieval, achieving an average API response time of 80 milliseconds, fostering a seamless user experience comparable to leading social platforms.