

Niloy Ghosh

Computer Science Student · Software Developer

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Experience

Royal Bank of Canada

Developer Co-op

May 2021 - Present
Toronto, ON, Canada

- ▶ Developed robust microservices using Spring Boot, Spring Data JPA, Lombok, Mapstruct, and GraphQL for the Application Experience team.
- ▶ Used Test Driven Development to implement all the backend services, and wrote quality unit tests and integration tests using JUnit5, Mockito, and Wiremock, achieving a code coverage of 95%.
- ▶ Documented the REST API interfaces for the microservices using the Open API specification.
- ▶ Built reactive forms using the Angular 11 Reactive Forms API and RxJS to capture client data.
- ▶ Participated actively in different meetings to learn and share about various technologies used across the bank.

Camis Inc.

Software Developer Co-op

Sep 2020 - Dec 2020
Guelph, ON, Canada

- ▶ Used the Scrum Framework and Jira to contribute to day-to-day tasks within a team of six.
- ▶ Implemented new features using Typescript, and Angular 8 for the Camis 5 web application.
- ▶ Developed unit tests when building components using the Jest testing framework.

Mastermind Science Society

Online Coding Instructor

May 2020 - Jul 2020
Dhaka, Bangladesh

- ▶ Collaborated with a group of four to launch a free online coding Bootcamp for high school students.
- ▶ Created lecture content in C to teach a class of 60 students.
- ▶ Aided students by holding meetings, creating assignments, and conducting problem-solving sessions.

Projects

Personal Website | Github · Live

Jun 2021

- ▶ Developed a personal website with React.js, Sass, and Typescript to showcase relevant experiences, projects, and skills.
- ▶ Made the website fully responsive and demonstrated the use of good design techniques by giving the UI a clean and beautiful look.

Pocket | Github · Live

Aug 2020

- ▶ Pair programmed with a friend to create a budget tracking application using Javascript, Node.js, Express.js, MongoDB, and Mongoose.
- ▶ Functionalities include tracking incomes, tracking expenses, and showing the current balance of the user

Technical Skills

Programming Languages

C, Java, Javascript (ES6), Typescript, HTML5, CSS3

Frameworks and Libraries

Backend development using:

Spring Boot, Spring Data, Lombok, Mapstruct, GraphQL, Maven, Open API, Node.js, Express.js, MongoDB, and Mongoose ORM

Frontend development using:

Angular 11+, React, Sass, Bootstrap, and RxJS

Unit & Integration testing using:

JUnit5, Mockito, Wiremock, and Jest

Tools and Platforms

Git, Github, Bitbucket, Jira, Confluence, Lucid Chart, Mural, Visual Studio Code, IntelliJ, DataGrip, PostMan, MongoDB Compass

Methodologies

Scrum, Kanban, Test-Driven Development

Education

University of Guelph

Honours Bachelor of Computing Co-op
Sep 2018 - Apr 2023

- ▶ Major: Computer Science
- ▶ Awards: University of Guelph Entrance Scholarship (\$7500)