

Niloy Kumar Ghosh

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Personal Projects

Task Manager API | (Apr 2020 - May 2020)

- Developed a task manager REST API from scratch using asynchronous JavaScript, Node.js, Express.js, MongoDB, Mongoose, Postman, and Robo3T.
- Made the application scalable by creating separate routes and models for the users and tasks.
- Ensured authentication and maximum security for the sensitive information provided by the user using the bcrypt.js node module.

Find My Weather | (Apr 2020)

- Built a weather application using HTML5, Bootstrap, asynchronous JavaScript with Express.js on a Node Server.
- Used the Mapbox API to get the precise location and integrated it with the Weather Stack API to get the accurate weather forecast information.
- Maintained version control using Git and Github.

Course Scraper | (Jan 2020)

- Developed a University of Guelph Course Scraper which lists the course title, course credit, course prerequisites, and course restrictions from the undergraduate student calendar at the University of Guelph website.
- Created with Python along with the BeautifulSoup library for scraping.
- Used the Pandas library to load the data into a CSV file.

Personal Website | (Oct 2019 - Dec 2019)

- Created a personal portfolio website from scratch using HTML5, CSS3, and JavaScript.
- Demonstrated Flat Design Techniques and animated the website using jQuery.
- Deployed the website at niloy.xyz

Work Experience

Online Coding Instructor | (Apr 2020 - Present)

Mastermind Science Society, Dhaka, Bangladesh

- Collaborated with a group of four to organize and launch an online coding Bootcamp for high school students.
- Responsible for creating lecture content and coding materials in C and teaching it to a class of 60 students online.

Crew Member | (Aug 2019 - Nov 2019)

Osmow's Shawarma, Guelph, ON

- Collaborated with a team of six to provide high-quality food to clients.
- Provided good client services while taking orders.

Technical Skills

Languages:

C, Java, JavaScript (ES6), Python, HTML5, CSS3

Operating System:

Windows, Linux (Debian 10), Mac OS

Frameworks:

Bootstrap, Nodejs, Express, MongoDB (Mongoose), jQuery, JUnit, JSON, AJAX

Version Control:

Git, Github

Development Tools:

Visual Studio Code, Sublime Text, IntelliJ, Postman, Robo3T, Figma

Education

Honours Bachelor of Computer Science (Co-op), Minor Mathematics

The University of Guelph

(May 2018 - May 2023)

Key Academic Project:

SVG Viewer App | (Jan 2020 - Apr 2020)

- Created an SVG file parser library with C that resize, edit, and create new SVG images.
- Used jQuery and Node.js to call the C library and populate the frontend with SVG images.

Awards:

University of Guelph Entrance Scholarship

(Sep 2018 - Apr 2019)

- Awarded for having an admission average of 90% (\$7500 CAD).