

SAILESH THAPA

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TECHNICAL SKILLS

Programming	Python, C/C++, Java
Framework	Django, Node.js/Express
Databases	MongoDB, MySQL
Other	Git, VS Code, Google Cloud Platform

EXPERIENCE

Software Developer Intern

bruxAway Inc - **Tools:** MongoDB Atlas, Node.js, Express.js

August 2020 - present

- Compile and analyze data, processes, and codes to troubleshoot problems and identify areas for improvement.
- Collaborate with the front-end developers and other team members to establish objectives and design more functional, cohesive server side logic to enhance the user experience.
- Design and implement data storage solutions.
- Attend regular meetings with the front end team to discuss progress and problems.
- Record data and reporting it to leadership as required

PROJECTS

PickBins

Hackathon - **Tools:** Node.js, Express.js, MongoDB, React

October, 2020

- **Won the third position** in a virtual hackathon organized by Nepalese Student Association at University of Texas at Arlington.
- Built a web application with **Node.js** and **React** for waste management system to generate an optimal path to collect waste from user locations.
- Built a registration, login and user authentication system.
- Created route handlers with underlying HTTP methods to send and receive the data between several application components.
- Used **Google Distance Matrix API** to calculate the distance between any geographic location.
- Generated a path list that minimizes the total travel time.

Go Kart

Personal project - **Tools:** Django, HTML, CSS, JavaScript

July 2020

- Built a fully functional shopping cart in **Django**.
- Implemented guest user checkout functionality
- Added PayPal Payment Integration to handle payments.
- Designed the frontend with **HTML, CSS, Bootstrap**.

Quick Read

Personal project - **Tools:** Django, HTML, CSS, JavaScript

May 2020

- Built a blog website in **Django** for sharing information and ideas.
- Used a **Bootstrap** template and connected it with **Django** backend.
- Added custom **HTML/CSS** templates for user sign up and login.
- Used **Django Authentication** for authenticating user.
- Created REST API with **Django REST Framework**.

Connect Four

Course project - **Tools:** Python

March 2020

- Built a board game in Command Line Interface to play connect four against computer.
- Implemented MiniMax search algorithm to create a computer move against human player.
- Implemented Alpha-Beta pruning algorithm to speed up the search for best possible move.
- Computer is guaranteed to defeat a player that makes a random move.
- Computer is more likely to win when the depth is increased.

EDUCATION

The University of Texas at Arlington

Bachelor of Science in Computer Science

GPA 3.7/4.00

Relevant coursework: Object-Oriented Programming, Algorithms Data Structures, Operating Systems, Discrete Structures, Computer Organization Assembly, Theoretical CS, Software Testing, Compilers, Computer Networks, Machine Learning, Artificial Intelligence, Cloud Computing