

# Pratham Sitoula

Software Engineering Student



Portfolio



pratham124



pratham-sitoula



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## PROJECTS

### NAVIGATION SYSTEM | COURSE PROJECT | C++

2022

- Implemented a navigation system that allows the user to scroll around the map of Edmonton, to select start and end points of a trip.
- The route-finding server computes the shortest path between the two(or nearest points to them in the road network) using Dijkstra's algorithm, and returns the route information (coordinates of the way-points along the shortest path) to a plotter program.
- Inter-process communication(IPC) between the plotter program and route-finding server is done via a Pair of Pipes.

### TIKTIK | PERSONAL PROJECT | NEXT TYPESCRIPT TAILWIND SANITY REDUX

2022

- Social media application that gives users the ability to upload videos, view videos, search for videos or users, comment on videos and like videos.
- Google Auth is used to login/logout users, and redux is used to persist the log state on reloads.
- Sanity is used to manage all the content for the application, and Next API routes connects the frontend to sanity database in order to render content on the viewport.

### REGIONAL EXPLORER | PERSONAL PROJECT | JAVASCRIPT SASS

2022

- Created an application that allows user to explore different regions and view information about the countries that reside in them.
- Users are able to bookmark countries, which are stored in local storage.
- MVC architectural pattern was used to organize the code into server and client side; A controller was used to connect the two components together.
- Restcountries API was used to gather information about the countries, while Google Maps API was used to render a dynamic map on the DOM.

### PORTFOLIO | PERSONAL PROJECT | JAVASCRIPT HTML CSS

2022

- Implemented UI/UX and responsive design principles.
- Contains an about me, tools and project section; Alongside a contact form.

## WORK EXPERIENCE

### AMERICAN EAGLE | SALES ASSOCIATE

June 2019 – December 2019 | Edmonton, Canada

- Communicated effectively with co-workers and 100+ customers per shift; delivered high-level of assistance during peak service hours by using quick-thinking and multitasking skills.
- Processed 2k daily in cash, credit, and debit transactions.

### HARRY AINLAY HIGH SCHOOL | SERVER

September 2019 – March 2020 | Edmonton, Canada

- Served 100+ students food daily in a fast-paced cafeteria.
- Communicated effectively with other volunteers and chefs to keep up with high demand for food.

## SKILLS

### PROGRAMMING

C++ • HTML • CSS • Python  
• MySQL • JavaScript • Type-Script • Java

### LIBRARIES/FRAMEWORKS

React • Redux • Sass • Tailwind CSS • Next.js

### TOOLS/PLATFORMS

Git • npm • Sanity

## EDUCATION

### UNIVERSITY OF ALBERTA

BSC IN SOFTWARE ENGINEERING

Sept 2020 - June 2025

GPA: 3.3 / 4.0

## COURSEWORK

### UNDERGRADUATE

- Introduction to Tangible Computing I
- Introduction to Tangible Computing II
- Formal Systems and Logic in Computing Science
- Computer Organization and Architecture
- Software Requirements Engineering
- Object-Oriented Software Design
- Introductory Statistics for Engineering