

# Sushan Manandhar

## Full Stack Engineer

Enthusiastic full stack engineer creating innovative, user-friendly applications. Skilled in front-end and back-end development, delivering high-quality solutions. Constantly learning and staying updated with industry trends. Driven to push technological boundaries.

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### Education

#### [Idaho State University](#)

##### [Bachelors of Science in Computer Science](#)

 Pocatello, ID      2018 - 2023

#### [Capital College And Research Center](#)

##### [High School in Computer Science](#)

 Kathmandu, Nepal      2016-2017

### Technical Skills

Proficient Languages & Frameworks

[HTML](#) [CSS](#) [JavaScript](#) [TypeScript](#)

[React](#) [Angular](#) [C#](#) [Java](#)

[Node.js](#) [ExpressJS](#) [MongoDB](#) [Prisma](#)

[Chakra UI](#) [Bootstrap](#) [MySQL](#)

Knowledgeable Languages & Frameworks

[PHP](#) [Bash](#) [C/C++](#) [Django](#) [Jest](#)

[SQL](#) [.Net](#) [Spring Boot](#) [Symfony](#)

[Tailwind](#) [Material UI](#) [Svelte](#)

Tools

[Git](#) [Linux](#) [Figma](#) [Docker](#) [Postman](#)

[Heroku](#)

### Certifications

#### [Full Stack Software Developer Assessment | IBM | Coursera](#)

#### [Python for Data Science, AI & Development | IBM | Coursera](#)

#### [Developing Front-End Apps with React | IBM | Coursera](#)

#### [Introduction to Web Development with HTML, CSS, JavaScript | IBM | Coursera](#)

#### [Introduction to Cloud Computing | IBM | Coursera](#)

#### [Getting Started with Git and GitHub | IBM | Coursera](#)

### Volunteer Experience

#### [NSA Nepalese Night 2023](#)

Photographer      Feb 2023

#### [JSA Japanese Night 2023](#)

Photographer      April 2023

#### [NSA Nepalese Night 2019](#)

Photographer      Feb 2019

### Professional Experience

#### [Undergraduate Teaching Assistant](#)

Internship

[Moodle](#) [Microsoft Word](#) [PowerPoint](#)

- Assisted in classroom management, including organizing materials, setting up equipment, and addressing student questions and concerns in an entry-level computer science class.
- Provided academic support by conducting help sessions, assisting with programming assignments, and offering constructive feedback to students, contributing to their learning and success.

 Pocatello, Idaho

Aug 2021 - May 2022

### Academic Projects

#### [Capstone Project: ARM 360 Emulator](#)

May 2023

[C++](#) [Qt](#) [Assembly](#) [Java](#) [SceneBuilder](#) [Github](#)

- Collaborated with colleagues to develop a C++ based Assembly Language Simulator.
- Designed and implemented real-time Computation features using C++ and Qt.
- Implemented the Java/Scene Builder based Assembly Simulator to C++/Qt based Assembly Simulator.

#### [Shortest Path Calculator](#)

April 2021

[Python](#) [Graph UI](#) [XML](#)

- Implemented Dijkstra's algorithm efficiently to find the shortest paths in a graph.
- Developed two versions of a priority queue class: one using an unsorted array and the other using a heap, with optimized time complexities for insert, delete-min, and decrease-key operations.
- Utilized a binary heap implementation with a separate array/map for fast access to arbitrary nodes, maintaining  $O(\log|V|)$  time complexity for all operations.

### Personal Projects

#### [Windows Shortcut Key Search Bar](#)

May 2023

[HTML](#) [CSS](#) [JS](#)

- Designed and developed the Search Bar that shows the shortcut key to Windows
- Implemented Auto Complete Feature

#### [Wage Calculator](#)

May 2023

[HTML](#) [CSS](#) [JS](#)

- Designed and developed the Web-Based Calculator
- Implemented Yearly Wage to Hourly Wage Conversion Calculator

#### [FIGS APP](#)

December 2022

[Android Studio](#) [Kotlin](#) [Firebase](#)

- Designed and Implemented Mobile Based Chatting App for students to connect with classmates
- Implemented the Back-end using Firebase

#### [Web-Based Tic-Tac-Toe App](#)

May 2023

[HTML](#) [CSS](#) [JavaScript](#)

- Designed and Implemented Tic-Tac-Toe Game
- Implemented the Back-end using JavaScript