Samyak Ghimire

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Education

University of Colorado Boulder – College of Engineering & Applied Science *May 2024*

Bachelor of Science (B.S.) Computer Science, GPA 3.8

Skills

			Coursework
♦ **Technical Languages**	JavaScript • C • Python • Java SQL • C++ • C# • HTML • CSS	♦ **CSCI 2275** • Data Structures ♦ **CSCI 2400** • Computer Sys. ♦ **CSCI 3022** • Data Science	
♦ **Libraries/Tools**	Node.js • Android Studio • Unity • PowerShell Mongo • Git • Docker • Ubuntu • JupyterLab	♦ **CSCI 3104** • Algorithms ♦ **CSCI 3202** • Intro to AI	
♦ **Additional Skills**	Agile SDLC • CLI • Linux/Unix Commands Windows Server Core and x86 Hardware Oral and Written Communication • Excel	♦ **CSCI 3287** • Database Systems ♦ **CSCI 3302** • Intro to Robotics	

Professional Experience

Medtronic • Incite Data Team | *Software Engineering Intern* *June 2023 - Aug 2023*

- ♦ Created a **Python REST API** that serves as a conduit for extracting data from a data lake. Extracts ~100,000 logs/480s
- ♦ **Engineered Json Data** to extract important information from clinical device service logs.
- ♦ Analyzed over 10 million logs from 90,000 generators and performed **SQL** analysis using Medtronic's **PostgreSQL Relational Database**

Medtronic Data Analysis | *Software Engineering Intern* *June 2022 - Aug 2022*

- ♦ Worked for **Incite Data Team** with the ValleyLab™ FT10 Generator and Ligasure™ Blunt tip Open Laparoscopic Sealer
- ♦ Analyzed **clinical data logs** using **Python** provided by the Generator from surgeries to identify specific surgery techniques. Focused on the "Double Sealing" surgical technique.
- ♦ Conducted **surgical lab tests** using the Tissue Lab to gather data for machine learning.
- ♦ Performed **Python ML Analysis (PCA & LDA)** on bench data from the laboratory.

Selected Projects

Socialite, *Duo Project* *Jan 2022 - Mar 2022*

- ♦ Developed a **full-stack** social media site with user registration/login, user posts and likes, and custom profiles.
- ♦ Features ability to change username/password/profile and account deletion.
- ♦ Coded backend utilizing **Flask Praetorian** for authentication and password hashing and **MongoDB** for the database.

Your Night Out, *Group Project* *Feb 2021 - Mar 2021*

- ♦ An application hosted on [Heroku](#) that generates an itinerary for a dinner and movie date.
- ♦ Utilizes **Google Maps API** to provide directions and **MovieGlu API** for tickets.
- ♦ Coded working signup/login profile system with **Node.js** and **SQL (Postgres).**
- ♦ Worked on frontend **HTML, CSS, JavaScript** including page layouts, UI/UX, and profiles.

Luffy King, *Duo Project* *Jan 2020*

- ♦ Developed a challenging [2D platforming game in Unity](#), inspired by the popular game Jump King.
- ♦ Made with **C#**, includes a **custom-coded physics engine** with constant gravity, 2D collision detection, and a working health item & save system.
- ♦ The game's difficulty and design provide an engaging and challenging experience for players.

Miscellaneous, *Small Projects* *2019 - 2020*

- ♦ **Python** Snake game with graphics and locally saved scores.
- ♦ **C++** Tetris game with graphics and locally saved scores.
- ♦ Volunteer Software Engineer for Fairview Web Team that designed older version of [fairviewhs.org](#) website using **Ruby on Rails.**