

Saphal Karki

Software Engineer

An insightful Software Engineer with 4+ years in experience through working in a professional environment as well as projects. Effective and driven towards model-based systems, object-oriented programming, data structures, algorithms, web development. Wish to explore this exciting field of Software Development to help organizations develop new and integrate products.

WORK EXPERIENCE

Teaching Assistant | University Of New Mexico | (01/2022 – 05/2022)

- Worked as a "Design of Large Program" Teaching assistant for Computer science department and performed all the major duties like mentoring, lecturing, and researching.
- Mentored 50+ students to design OOD Java program focusing on the concepts like Multi-threading, Socket-programming etc.
- Closely worked with professor to design and discuss the projects which helped to develop Object Oriented Programming skills along with GitHub and Version control.

IT Lab Assistant | University Of New Mexico ECE | (07/2018 – 01/2020)

- Supervised two labs and closely worked with staff, faculty, and students to support the computer needs of the Electrical and Computer Engineering Department
- Collaborated with fellow IT Assistants to install, maintain, and test computer hardware and software in 200+ computers and executed various technical tasks, such as imaging the computer lab units, and managing a virtual desktop infrastructure on server.
- Provided IT support in areas such as cybersecurity, programming, network management, VMware management, and data center management

Software Developer Intern | Leapfrog Technology Inc. | (03/2020 – 09/2020)

- Worked with internal team to prepare data mapping based on available APIs and data models and increased efficiency by 10%
- Worked with senior development team to create a web application for the client using HTML, CSS, and JavaScript along with framework like Bootstrap for the frontend and created Node JS server along with Mongoose for the database
- Coordinated with co-developers and informed the status of the development progress to the project manager

PROJECTS

Blogist

- Developed an interactive blog web application where users can perform CRUD operations on their posts and other major functionalities such as like/unlike posts, follow/unfollow others
- Implemented HTML, CSS, and JavaScript to develop front-end of the site and Express JS and mongo dB as server and database respectively.
- Used passportjs session along with Google strategy to authenticate user to the application

Drone and Digital Home Safe

- Managed and supervised a group of 5 student engineers to plan, design, and develop, Required definition Document (RDD), Software Requirement Specification (SRS) and Software Architecture Design (SAD) of a Digital Home Safe and a Drone
- Created a simulation of the control software of the Digital Home Safe and the Drone in Java
- Presented the documents, and simulations in front of 30+ audience


Auction House

- Developed an Object-Oriented Design to create a Distributed Auction system of multiple auction houses selling items, multiple agents buying items, and a bank keeping track of funds
- Implemented socket programming, and multithreading to establish a communication between auction house, agents, and the bank in Java
- Implemented an UI using JavaFX for smooth interaction between these procedures

Other Relevant Projects

Maze Generator and Solver, Scrabble, Dominoes, Logistic Regression and Naïve Bayes, Shopping web application

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 <https://github.com/saphal7702>

EDUCATION

Bachelor of Science

Major: Computer Science

Minor: Mathematics

University of New Mexico

GPA: 3.49/4.0

(08/2018 – 05/2022)

SKILLS

Python Java C JavaScript
Node JS Express JS HTML CSS
Bootstrap React Restful API
MySQL Mongoose Mongo DB
DOM Manipulation jQuery
TensorFlow AWS Deep Learning
GitHub and Version Control
Teamwork Creativity Leadership
Problem Solving Active Learning

RELEVANT COURSEWORKS

Design of Large Program
Data Structures and Algorithms
Software Engineering
Statistics and Probability Theory
Computer Networks Operating System
Declarative Programming
Intro to Machine Learning

HONORS AND CERTIFICATES

- The Complement Web Development Bootcamp [\[Certificate Link\]](#)
- Amigo International Scholarship (worth ~\$23000 an year)
- Got third position in UNM hackathon for building a web application
- Computer Science Department Scholarship at UNM (2021)