Rabin Kalikote

COMPUTER SCIENCE AND MATHEMATICS MAJOR · THE COLLEGE OF IDAHO

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Technical Skills

Programming	Python · C++ · Ruby · NodeJS · PHP
Web/Media	HTML/CSS/Javascript · React · Ruby on Rails · Express · Photoshop · Filmora
Databases	SQL · SQLite · PostgreSQL

Projects

Ask Mattrab: Online Learning Platform
Kathmandu, NP

- Engineered, developed, and deployed (Ruby on Rails) full stack responsive web application to support 6179 registered users, 1513 blogs, 4175 questions threads, and 9948 quizzes based on Nepalese education curriculum.
- Built relational database with Activerecord and PostgreSQL having 19 tables to organize the relationships between students (users), blogs, images blobs, questions and answers, quizzes, notifications, likes, followings, comments.
- Founded a non-profit community of 400 students to collaborate, create and verify high quality academic materials available for free in the application; arranged rewards for top creators; organized community hikings.

YoteShares: Meal Sharing Platform
Caldwell, ID

- Built a bank-like React web application that connects to campus's meal plan web system through API and allowed 1054 students to share and donate unused meals before expiration.
- Used Microsoft's MSAL authentication to limit the access of YoteShares to College of Idaho students only.

Kishan Nepal: News Aggregation Platform
Remote, NP

- Led backend team to build web scraping algorithm using Beautiful Soup (bs4) and APScheduler python library and scrape news from 9 Nepalese news websites every 5 minutes.
- Built news filter algorithm with natural language processing (NLP) and hosted agriculture related news as JSON API on different endpoints of a python Flask app.

Let's MCQ: MultipleChoiceQuestion Game
Kathmandu, NP

- Built Kahoot-like realtime multiple-choice-game using Rails ActionCable (web-socket) allowing multiple users to play games in multiple rooms simultaneously; implemented sound effects, leaderboard, and live scores.

Internships / Works

WSP USA
Denver, CO
SOFTWARE DEVELOPMENT INTERN - TECH TEAM
June, 2023 - Aug, 2023

- Supported development of Illinois Tollway GEC Tracker prototype using React/NodeJS allowing company's employees across the USA to upload and share 3D modeling files.
- Implemented Autodesk Forge API in React to render 3D modeling files in app, Microsoft's MSAL authentication to authenticate employees, and adapted the existing PostgreSQL database to a no-database NodeJS file system.

College of Idaho: MAPS Department
Caldwell, ID
CS AND MATH TEACHING ASSISTANT
March, 2023 - Present

- Assisted CSC150 "Python Fundamentals" and MAT150 "Calculus" classes to explain programming and mathematical concepts, grade assignments, and proctor exams; supported accessibility accommodation.

Education

The College of Idaho
Caldwell, ID
HONOURS BACHELOR OF COMPUTER SCIENCE AND MATHEMATICS
Aug, 2022 - May, 2026

- Dean's Honours List: CGPA 3.9/4.0
- Relevant Courses: Python Fundamentals, Object Oriented Programming, Applied Databases, Algorithms Design and Analysis, Data Structures, Graph Theory, Data Visualization, Applied Calculus