Rabin K Kalikote

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Education

The College of Idaho   *Caldwell, ID*
BA COMPUTER SCIENCE AND MATHEMATICS · Theatre and Psychology Minors   *Aug, 2022 - May, 2026*

• Dean's Honours List: *CGPA 3.9/4.0*
• Leadership: **President** of Coding Club, **Facilitator** of 'Coding Nights', **Instructor** of 'Build-Your-Brand 101'

Technical Skills

Programming Python (advanced) · R · C++ · Ruby · HTML/CSS/JS · Bootstrap · Git/GitHub
Data Viz. R (tidyverse, ggplot2) · Python (pandas, matplotlib) · SQL· Excel
Stats. & ML Regression & Classification Models · Feature Engineering · Model Evaluation

Internships / Works

WSP USA Inc.   *Denver, CO*
SOFTWARE DEVELOPMENT INTERN   *June, 2023 - Aug, 2023*

• Developed a Prototype Web Application using .NET, ReactJS and Autodesk Forge API, enabling users to upload, view, and interact with 3D models directly in the web browser, resulting in a 8% faster rendering.
• Implemented Python Matplotlib graphs to visualize the collaborative contributions and progress of the internal team in 3D models design within the application.

The College of Idaho   *Caldwell, ID*
IT INTERN AND TEACHING ASSISTANT   *March, 2023 - Present*

• Optimized Python algorithms to visualize college's business data, reducing processing time by 40%.
• Created SQL-based data reports for institutional decision-making in the business department.
• Tutored students in multiple regression analysis, theory of probability and statistics using R and Python, ensuring a 100% A-grade achievement among mentees.

Projects

Ask Mattrab: *Online Learning Platform* | Ruby on Rails, PostgreSQL, AWS

• Designed and maintained a relational database with ActiveRecord and PostgreSQL, comprising 19 tables and over 46,000 rows to organize complex relationships between users, content, and interactions.
• Built a linear model to predict the likelihood of a student studying a specific article based on their selected interest tags, previously read articles, and followed friends.

ASCI Senate: *Senate Voting Application* | ExpressJS, AngularJS, WebSocket, SQL

• Developed a real-time Senate Voting System using AngularJS and Express.js, implementing Socket.io for live vote broadcasting and role-based dashboards for secure and efficient voting sessions.
• Designed and integrated a relational database schema for session management, attendance tracking, and voting records, with the system actively used by 24 senators in weekly Senate meetings.

AgriNews: *News Aggregation Platform* | Python Flask, SQLite

• Led backend team to build web scraping algorithm using Beautiful Soup (bs4) and APScheduler python library that scraped news from 9 Nepalese news websites and updated the database every 15 minutes.
• Built a news filter algorithm with natural language processing (NLP) that filtered agriculture related news with 95% accuracy; hosted the filtered news in python Flask app.