Rabin K Kalikote

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Education

The College of Idaho
BA COMPUTER SCIENCE AND MATHEMATICS · Theatre and Psychology Minors

Caldwell, ID
Aug, 2022 - Jan, 2026

- Dean's Honours List: *CGPA **3.8/4.0***
- Leadership: **President** *of Coding Club,* **Facilitator** *of 'Coding Nights',* **Instructor** *of 'Build-Your-Brand 101'*

Technical Skills

Programming Python (advanced proficiency) · JavaScript · C++ · Ruby

Web/Media HTML/CSS · jQuery · Bootstrap · Ruby on Rails · Flask · Express · Git · Photoshop

Databases SQL · PostgreSQL · R

Projects

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

- Engineered, developed, and deployed a full stack responsive social learning app, attracting 10,000 registered students within the first year and achieving 60,000 monthly visits.
- Designed and maintained a relational database with ActiveRecord, comprising 19 tables and over 46,000 rows to organize complex relationships between users, content, and interactions.
- Designed over 40 responsive web pages to enhance user experience and content organization across various sections of the app, contributing to an 18% increase in average user engagement.

AgriNews: *News Aggregation Platform* | Python, Flask, Flutter, Heroku

- 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.

pCards: *Business Data Visualizer* | Python, Matplotlib, Visual Basic

- Led transition to modern Python algorithm, optimizing data processing speed by implementing Merge Sort, improving efficiency by 40% compared to the original Bubble Sort in Visual Basic.
- Enhanced data visualization, utilizing Matplotlib to create detailed and aesthetically improved graphs, significantly improving the clarity and presentation of the college's spending data by category.

Internships / Works

Software Development Intern
WSP USA INC.

Denver, CO
June, 2023 - Aug, 2023

- Developed a prototype Web App using Express, React 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.
- Integrated Microsoft MSAL authentication and implemented data export functionality, enhancing security and user interaction, and deployed the application in a test environment.

Computer Science Tutor
THE COLLEGE OF IDAHO

Caldwell, ID
March, 2023 - Present

- Guided students through advanced Python topics including OOP, data structures (dictionaries, stacks, queues, linked lists, binary trees), and algorithm analysis (sorting and searching with time complexities).
- Utilized demonstration, visualization, targeted questioning, and examples walk-through strategies to ensure comprehensive understanding, resulting in 100% tutees achieving A grades.