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 3.8/4.0*
- Relevant Courses: *Object Oriented Principles, Data Structures, Design and Analysis of Algorithms, Applied Databases, Discrete Mathematics, Advanced Calculus, Data Visualization, Statistical Machine Learning*
- Leadership: *President of Coding Club, Facilitator of 'Coding Nights'*

Technical Skills

Programming   Python (industry-level proficiency) · C++ · Ruby
Web/Media   HTML/CSS/JS · Bootstrap · Ruby on Rails · Flask · Express · Git/Github · Photoshop
Databases   SQL · SQLite · PostgreSQL

Internships / Works

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

- Developed a Prototype Web Application using .NET, 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.

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

- Optimized Python algorithms to process college's business data, reducing processing time by 40%.
- Assisted "OOP & Data Structures" and "Calculus" classes to explain concepts, grade assignments, and proctor exams; supported accessibility accommodation.

Projects

Ask Mattrab: *Online Learning Platform* *Kathmandu, NP*

- Developed (Ruby on Rails), and deployed (AWS/Heroku) full stack responsive social learning app, attracting 10,000 users within the first year and achieving 60,000 monthly visits.
- 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.
- Designed over 40 webpages (HTML/CSS/JQuery) 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* *Remote, NP*

- 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.

Build your Brand 101: *Web Development Workshop* *Caldwell, ID*

- Facilitated a week-long workshop with 21 students, teaching web development fundamentals including HTML, CSS, and JavaScript, resulting in 85% of participants building fully functional personal websites.
- Helped students to wireframe on paper, develop websites using Bootstrap, jQuery, Font Awesome, and deploy their websites with version control using GitHub Pages.