

# BIRAT ARYAL

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## SUMMARY:

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Motivated Software Engineering student and aspiring full-stack JavaScript developer with practical experience in building secure and responsive MERN-based applications. Known for being a dedicated learner, team player, and active contributor to tech communities, with a growing portfolio of meaningful projects. Eager to apply and expand my skills in dynamic, real-world development environments.

## PROJECTS:

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### URL Shortener

- **Tech Stack:** Node.js, Express, React, MongoDB, Tailwind CSS, Python
- Developed a full-stack URL shortener with JWT authentication, admin analytics, and Docker-based deployment.
- Integrated privacy controls, responsive UI with dark mode, and Python-powered click analysis scripts.
- **Link:** <https://github.com/aryalbirat/URL-Shortener>

### ClassLens - AI Powered Engagement Detection

- **Tech Stack:** Python, YOLOv8, OpenCV, React, Node.js, Express
- Built a computer vision tool to detect student attentiveness using YOLOv8 and a custom dataset.
- Enabled real-time engagement metrics with backend processing, image upload, and dynamic dashboards.
- **Link:** <https://github.com/aryalbirat/ClassLens>

### TextUtils

- **Tech Stack:** Node.js, Express, MongoDB, React, Vite, Tailwind CSS
- Built a secure text utility platform with JWT auth, user-specific CRUD operations, and rate limiting.
- Designed a responsive gradient-styled UI with real-time input validation and Helmet security headers.
- **Link:** <https://github.com/aryalbirat/Text-Utils>

### Other Projects

- **Personal Portfolio Website** using React, Tailwind CSS, Framer Motion, Lucide React.
- **Password Generator** using React, Tailwind CSS

## SKILLS:

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- **Languages & Frameworks:** JavaScript, Node.js, Express, React, Python
- **Frontend:** HTML, CSS, Tailwind CSS, Vite, Framer Motion, React Router
- **Backend & Databases:** MongoDB, Mongoose, MySQL, REST APIs, JWT, Bcrypt
- **Security & Tools:** Helmet, Rate Limiting, CORS, Postman, Git, GitHub, Docker, VS Code
- **Libraries & APIs:** Axios, Chart.js, EmailJS, Multer, OpenCV, YOLOv8,
- **Soft Skills:** Leadership, Communication, Team Collaboration, Public Relations, Event Management

## EXPERIENCE & LEADERSHIP:

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### IT Officer, Rotaract Club of Balaju

July 2024 - Present

- Managed the technological operations of the club, including overseeing and implementing tech initiatives.
- Conducted and facilitated tech events while actively involving the club in innovative, tech-focused initiatives to promote technical literacy and a culture of learning.

### Public Relations Lead, Nepal Tek Community

Jan 2024 - Present

- Strengthened community engagement and visibility through strategic communication, event promotion, and public relations initiatives.
- Designed and delivered consistent, high-quality promotional materials to support successful execution of community events and campaigns.

### Data Science Fellow, Code for Nepal

April 2025 - Present

- Developing and strengthening practical skills in AI and data science through hands-on learning and solving problems.

### Active Contributor, NOSK

Jan 2023 - Present

- Actively contributed by supporting open-source advocacy, coordinating events, and promoting FOSS awareness through collaborative community engagement.

### College Representative, Code For Change

Jan 2025 - Present

- Acted as a liaison between the organizing club and college, ensuring effective communication and engagement.

### Event Organizer & College Representative, Engineers Vlogs

Oct 2024 - Dec 2024

- Contributed efficiently to the successful organization of Nepal's first international-level engineering expo, Orbit Engineering Expo 2.0, representing NCIT.
- Facilitated strong participation from the college by coordinating outreach and encouraging active involvement.

### General Member, Rotaract Club of Balaju

July 2023 - July 2024

- Contributed actively to community service and event coordination at Rotaract Club of Balaju, while creatively supporting initiatives through graphics and poster design.

## CERTIFICATIONS:

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### Advanced React

- **Provider:** Meta
- **Summary:**
  - Built reusable, maintainable React components using advanced patterns.
  - Integrated APIs for data fetching and posting.
  - Implemented seamless testing with React Testing Library.
- **Credential Link:** <https://www.coursera.org/account/accomplishments/records/B1TTHFS1C2LB>

### Complete JavaScript with HTML5 & CSS3 – Zero to Expert

- **Provider:** Udemy
- **Summary:**
  - Gained in-depth knowledge of JavaScript, HTML5, and CSS3
  - Built real-world projects and interactive interfaces
- **Credential Link:** <https://www.udemy.com/certificate/UC-07ed4f0a-f35a-4626-a361-5b7ae56a613f/>

### Learn JavaScript Intermediate

- **Provider:** Programiz
- **Summary:**
  - Strengthened core and advanced JavaScript concepts and syntax.
- **Credential Link:** <https://programiz.pro/certificates/detail/4341CE33982C>

## EDUCATION:

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### Bachelors in Engineering in Software Engineering

Dec 2022 - Present

- Nepal College of Information Technology (NCIT), Balkumari, Lalitpur
- **Grade:** 3.76 (4<sup>th</sup> semester)

## ACHIEVEMENTS:

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- Earned the **500+ Designs Milestone Badge** (October 2024) on Canva for creative excellence.
- Completed **AWS Academy Cloud Foundations certification** (May 2025) by Amazon Web Services.
- Recognized as **Rotaractor of the Month** (December 2023) by the Rotaract Club of Balaju.
- Awarded the **President's Choice Award** (December 2024) by the Rotaract Club of Balaju.
- Received over **50 medals and certificates** for academic and extracurricular achievements since childhood.