

# Bijay Adhikari

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## SUMMARY

Final-year Computer Science student with hands-on experience in full-stack development (MERN stack) and a strong foundation in data structures and algorithms. Skilled in building scalable, secure, and efficient software solutions with clean coding practices. Passionate about problem-solving, continuous learning, and applying technology to real-world challenges.

## EDUCATION

**BMS College of Engineering, Visvesvaraya Technological University (VTU)**  
*Bachelor of Engineering (B.E.) in Computer Science and Engineering (IoT, Cybersecurity Including Blockchain Technology)*

*Bengaluru, India*  
2022 – 2026

- **GPA:** 8.62/10 (Till 6th SEM)
- **Coursework:** Data Structures & Algorithms, Operating Systems, cloud computing, DBMS, Networking, Cybersecurity, Blockchain, Cryptography, Machine Learning, Deep Learning.

## SKILLS

**Languages:** C++, C, JavaScript, Python, SQL.

**Frameworks & Technologies:** Node.js, Express.js, React.js, HTML, CSS, Bootstrap, MongoDB, MySQL.

**Tools & Platforms:** Git, GitHub, Linux/Unix, VS Code, PyCharm.

## EXPERIENCE

### Full-Stack Web Developer Intern

*Hamro Kosheli*

*Chitwan, Nepal*  
Feb 2021 – May 2021

- Built and deployed scalable e-commerce features using the MERN stack (React, Node, MongoDB).
- Optimized backend API efficiency by 30% and improved mobile performance by 25%.
- Secured user authentication with JWT and implemented data validation to eliminate injection risks.
- Collaborated on performance testing and deployment in Linux-based environments.

## CERTIFICATIONS

**Programming and Web Development:** Python Clean Coding (Infosys Springboard )

**Artificial Intelligence:** Google AI Essentials (Coursera )

**Cybersecurity:** Google Cybersecurity Professional Certificate (Coursera )

**Google Cloud:** Google Cloud Career Launchpad – Cloud Engineer Track (Credential ID - RCUTBk1L )

## SELECTED PROJECTS

### ScanPOS

[github.com](#) March 2025

- Developed a mobile-first POS web app enabling shopkeepers to manage inventory and sales directly from smartphones, eliminating upfront setup and hardware costs.
- Built secure REST APIs using Node.js and Express.js, integrated MongoDB Atlas for distributed data management, and implemented JWT-based authentication.
- Automated daily sales and audit reports via email, and added barcode scanning and PDF bill generation for streamlined store operations.
- Tech Stack: React.js, Node.js, Express.js, MongoDB Atlas, JWT, qrcode.react, react-pdf, Nodemailer

### PayChain

[github.com](#) June 2025

- Built a real-time dApp to automate employee payments every 30 minutes in ETH/USDT via MetaMask.
- Deployed distributed smart contracts on Ethereum, applying concepts like consensus and fault tolerance.
- Improved transaction transparency and reduced manual payroll effort using Web3.js and secure smart contracts.
- Tech Stack: Solidity, React.js, Node.js, Web3.js, Ethereum.

### SQL Injection Prevention

[github.com](#) Dec 2024

- Created a secure login system using prepared statements, bcrypt, and PHPMailer alerts.
- Eliminated SQL injection vulnerabilities in manual test cases with account lockout and input validation.
- Tech Stack: PHP, MySQL, HTML/CSS, Bootstrap, Linux.

### V-ICB Dynamic Branch Website

[github.com](#) Apr 2024

- Built a dynamic branch website with responsive user interface and engaging visual content to enhance usability.
- Implemented interactive features like file downloads (PPT, PDF) and reactions to boost student engagement.
- Enabled faculty to upload study materials and students to interact with content efficiently.
- Tech Stack: React.js, Node.js, MongoDB, Redux, Firebase.