

# Prasant Bhattarai

Computer Engineering Student • Full-Stack Developer

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## About Me

Third-year Computer Engineering student at Thapathali Campus with hands-on experience building full-stack web platforms, system-level software, and game engines from scratch. Skilled in backend architecture, concurrent processing, and algorithmic problem-solving. Actively seeking an internship to contribute to real-world engineering teams and deepen expertise in scalable software systems.

## Technical Skills

**Languages:** C/C++, Python, JavaScript, Java, SQL, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Spring Boot, SFML, LibGDX

**Tools & Platforms:** Git, GitHub, PostgreSQL, Linux, REST APIs

## Languages & Focus Areas

**Languages:** Nepali (Native), English (Fluent), Hindi (Conversational), Japanese (Elementary)

**Areas of Focus:** Systems Software, Full-Stack Web Development, Open Source, App Development

## Projects

**Daskitta** • React, Java, Spring Boot, REST APIs 2026

A web platform built for the Nepali stock market, allowing users to apply for IPOs and check allotment results across multiple DEMAT accounts simultaneously — a workflow that is otherwise manual and time-consuming.

- Engineered concurrent third-party API session management enabling multi-account IPO applications in a single request, eliminating manual switching between accounts.
- Optimized multi-threaded backend execution to handle parallel API calls with reduced latency, ensuring fast result aggregation across accounts.

**LifeLink** • React, Express.js, REST APIs 2025

- A full-stack platform connecting patients with hospitals featuring appointment booking, department listings and a Node.js backend, designed to reduce friction in healthcare access.

**NULLVOID** • Java, LibGDX, Game Physics 2025

- Built a cross-platform 2D side-scrolling platformer with deterministic collision detection and finite state machines for managing player and enemy entity behavior.

## Experience

**Freelance Web Developer 2024 – Present**

Self-Employed • RemoteJhapa, Nepal

- Designed and delivered a full business website for a local client using React and Node.js, handling requirements gathering, UI design, and deployment end-to-end.
- Developed workflow automation scripts for small local businesses, reducing manual data entry overhead.

**Mathematics & Computer Science Tutor 2023 – Present**

Self-EmployedJhapa, Nepal

- Instructed 10+ high school students in advanced mathematics, engineering physics, and C programming fundamentals, with measurable improvement in exam performance.
- Broke down complex topics such as recursion, pointers, and mathematical proofs into structured, module-based lessons tailored to each student's pace.

## Education

**Thapathali Engineering Campus, IOE 2023 – 2027 (Expected)**

Bachelor of Computer Engineering • GPA: 3.60 / 4.00 Kathmandu, Nepal

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Architecture.

**Jaya Multiple Campus 2021 – 2023**

Higher Secondary Education (+2 Science) • GPA: 3.65 / 4.00 Kathmandu, Nepal