Gaurav Nyaupane

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Professional Summary

Software engineer with extensive experience in full-stack development, computer vision applications, and scalable real-time systems. Skilled in developing applied AI solutions, resource-efficient ML, and healthcare-related technologies. Strong background in C#/.NET, React, Python, and cloud-based software development. Passionate about technology for social good and improving user-centric digital experiences.

Education

Tribhuvan University, Mechi Multiple Campus, Nepal
Bachelor of Computer Applications (BCA), 2017 – 2022
CGPA: 3.66 / 4.00

Singhadevi Secondary School, Damak, Nepal
High School, Majors: Computer Science, Business Mathematics, 2015 – 2017

Professional Experience

PlanCare, Perth via Tekkon Technologies, Kathmandu
Senior Software Engineer, Oct 2023 – Present

- Led migration of legacy Angular system to React using a micro-frontend architecture.
- Developed and deployed 60+ new features for Caretaskr platform serving 1,500+ users.
- Architected PlanCare Portal mobile app using React Native.
- Enhanced system performance by 35% through backend and frontend optimizations.
- Implemented over 250 unit tests to increase code reliability.

Premium Technologies, Kathmandu
Full Stack Developer, Dec 2022 – Sep 2023

- Developed NotificationHub, a real-time notification system for multiple platforms.
- Built custom Identity Server for secure authentication and authorization.
- Improved Core Banking System and developed Loan Management System, reducing manual processing time by 40%.

Crystal Solution, Jhapa
Software Developer / Team Lead, Jan 2022 – Jul 2022

- Led team to build a conference management system for 1,000+ participants.
- Migrated legacy data access layers to ORM-based architecture for improved performance.
- Ensured high-quality code via unit and integration tests with 90% coverage.

Mechi Multiple Campus, Tribhuvan University
Software Development Intern, Mar 2021 – Jun 2021

- Developed OpenCV-based automated attendance system.
- Contributed to Education Management Information System for 1,000+ students.

Projects

- **Third Eye:** Digital platform for managing medical histories.
- **Family Tree:** Computerized system for visualizing and managing ancestral lineage.
- **ERealEstate:** Online real estate auction platform with real-time bidding.
- **RelayHub:** Real-time event broadcasting gateway bridging HTTP and WebSocket clients.
- **Glide:** Portable OCR-to-Braille assistive device concept.
- **Bubble Sheet Evaluator:** Automated grading using optical mark recognition.
- **Result Extractor:** TU BCA entrance result processing tool.
- **Other open-source projects:** CMS for static websites, shared expense manager, Swagger endpoints generator, IndexORM, and more.

Technical Skills

Languages: C#, Python, JavaScript, TypeScript
Frameworks/Libraries: ASP.NET Core, React, Django, OpenCV, NumPy
Tools & Platforms: Docker, Git, Azure DevOps, GitHub Actions, Linux
Databases: PostgreSQL, MySQL, MS SQL Server, Redis

Awards & Honors

- Best Communicator, Tekkon Technologies (2025)
- Academic Excellence Awards, BCA (Multiple Semesters)
- 50% Tuition Fee Waiver, Tribhuvan University (2018)
- Winner, Regional Science Exhibition, Jhapa

Teaching & Mentoring Experience

- Facilitated lab sessions for undergraduate computer science courses multiple times.
- Mentored a group of 2 classmates on course project and associated theses, providing guidance on methodology, coding, and documentation.
- Delivered more than 5 in-class presentations as part of ongoing lectures, teaching course topics to peers under faculty supervision.
- Assisted a faculty member in reviewing and providing feedback on initial project proposals from 4th-semester students, leveraging expertise gained as a senior (8th-semester) student.
- Organized One-week Programming Bootcamp for high school students

Community Engagement

- Co-founder, BCA Tribhuvan University Facebook community
- Founding Member, BCA Student Association, Mechi Multiple Campus
- Host, Sports week organized by BCA Student Association
- Volunteer, Nepal Red Cross Society blood donation campaigns

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Languages

- Nepali (Native)
- English (Professional, IELTS 7.5)
- Hindi (Fluent)

References

Available upon request.