

PRABESH ARYAL

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EDUCATION

Baku Engineering University, Azerbaijan
Bachelors in Computer Engineering

July 2026

Current GPA: 90.12/100

Kathmandu Model Secondary School, Nepal
National Examinations Board

December 2021

GPA: 3.08/4.0

Relevant Coursework: Principles of Entrepreneurship and Introduction to Business, Engineering Economics, English for Business and Academic Communication, Basics of Computer Engineering, Basics of Programming (C & C++), Web Systems and Technologies, English for Academic Purposes, Linear Algebra and Analytical Geometry, Circuit Theory, Mathematical Analysis, Physics, Object Oriented Programming (Java), Data Structures and Algorithms, Computer Architecture, Basics of Electronics, Discrete Mathematics, Operating Systems, Database Systems, Digital Systems, Modern Programming Languages (C# & .NET), Differential Equations, Internet Technologies, Computer Graphics, Computer Networks, Civil Defense, Machine Learning, Computer Modeling, Computer System Security, Artificial Intelligence, Probability Theory and Mathematical Statistics

Awards: Azerbaijan Government Scholarship 2022

PUBLICATIONS

Algorithmic Bargaining: Usability, Challenges, and Market Implications in Dynamic Pricing Systems

May 2025

Journal of Baku Engineering University (BEU), ISSN 2521-635X

DOI: 10.30546/09090.2025.01.1090

- Conducted research on dynamic pricing systems and interactive bidding algorithms, analyzing usability, market implications, and societal impacts. Focused on e-commerce applications and algorithmic negotiation. Explored ethical considerations, fairness, and transparency in pricing models, examining consequences for competition and consumer welfare.

EXPERIENCE

Technical Lead & Solutions Architect | *Estudy Go - etudygo.com*

July 2025 – Present

- Architected and deployed a cloud-native student mobility platform using Google Cloud Run, Docker, and Kubernetes, optimized for millions of users.
- Led frontend development, implementing robust form handling, authentication, and interactive session management.
- Contributed to backend development with Java Spring Boot, resolving critical inconsistencies and integrating APIs.
- Implemented CI/CD pipelines and managed Cloud SQL, Cloud Storage, and IAM for reliability and performance.
- Developed a Telegram bot for system-level monitoring and error reporting to enhance real-time operational insight.
- Directed technical strategy, framework selection, and deployment pipelines, driving alignment between business vision and technology scalability.

Full Stack Developer | *Hyperce.io (Remote, Nepal Primary Residence)*

Aug. 2025 – Present

- Work remotely for Hyperce.io, a global eCommerce solutions provider, with Nepal as my primary residence.
- Design and implement backend algorithms and custom solutions for logistics, shipping, quick/bulk edits, etc. using Vendure.
- Manage AWS infrastructure, including logging into EC2 instances and handling deployments, monitoring, and troubleshooting.
- Collaborate with international teams to deliver scalable, vendure-powered e-commerce platforms and ensure robust backend operations.

Software, DevOps & Full-Stack Engineer | *Freelance Developer, Founder, and Designer* Oct. 2019 – Sept. 2025

- Engaged in diverse Python projects and web development, including advanced web applications, cloud computing, server management, and automation for several clients.
- Specialized in scraping, scripting, bot and chatbot creation, and full-stack development.
- Proficient in AI/ML, cybersecurity, and system administration, demonstrating expertise across various Python applications and solutions.
- Handled the complete lifecycle of website development, including designing, developing, and deploying for domains like **innovative-eco-krishi.com.np**, **dri-jay-ghimire.com**, **essence-treks-nepal** and many more.
- Gained extensive experience in full-stack development, server management, and cloud deployment, utilizing technologies like **React**, **Next.js**, **Node.js**, **Python**, **Django**, **FastAPI**, and integrating **CI/CD pipelines**, **Docker**, **Kubernetes**, and **Terraform** to streamline deployments.
- Focused on automation, scalability, and security while delivering production-ready solutions with modern UI/UX interfaces.

Hacker Hero | *Content Creator*

Aug. 2016 – July 2022

- Specialized in video production, editing, and design.
- Gained proficiency in Adobe Suite and honed skills in YouTube content creation.
- Learned the intricacies of video editing, scripting, and audience engagement.
- Achieved a significant milestone by earning my first income at the age of 19 through creating and posting video content.

Volunteering & Nepali Startups | *Contributor and Volunteer*

2019 – 2022

- Contributed to several Nepali startups, including **Clamphook**, an EdTech platform, where I engaged in various development and organizational roles.
- Volunteered in diverse initiatives such as **Nepal Scouts**, **Mathematics Initiatives in Nepal**, and **Students Reunion**, showcasing a strong commitment to community development and youth engagement.

PROJECTS

Music App - Complete Music Streaming Platform | *ASP.NET Core, SQL Server, MVC, Bootstrap* June 2025

- Developed a full-stack music streaming platform with ASP.NET Core, featuring music management, social interactions, and admin tools.
- Implemented JWT & Cookie-based authentication, role management, and RESTful APIs (50+ endpoints, 12+ DB models, 11+ API controllers).
- Designed a responsive frontend with MVC & Bootstrap (30+ Razor views, 7+ MVC controllers) and single-handedly built the enterprise-level application.

AI/ML Projects | *Java, Python, TensorFlow, SQLite, YOLOv8, OpenCV, EasyOCR, Flask* March 2024 – Nov. 2024

- Built a Female Health Tracker app (Java, TensorFlow, SQLite) with cycle logging, AI-period prediction, symptom tracking, and a Flask backend API.
- Developed an AI system (Python, YOLOv8, OpenCV, EasyOCR) to detect vehicles/license plates from video, extract text, and overlay data for real-time tracking.

DalbhatPowerBot | *Telegram API, Playwright, BeautifulSoup, JSON, AIOHTTP, RapidAPI* Aug. 2022 – Present

- Created an automated Telegram bot for multimedia downloads, social media scraping, and Nepali utilities.
- Integrated APIs and reverse-engineered platforms like Twitter, Reddit, TikTok, Instagram, and Facebook.
- Enabled advanced downloading of photos, videos, and audio (up to 2GB) with yt-dlp and optimized pipelines.
- Developed Nepali calendar, horoscope, dictionary, and stock market utilities using modular JSON storage.
- Bypassed CAPTCHA and access restrictions to ensure 99% uptime and fast responses.

SKILLS

Languages: Python, C, C++, Java, JavaScript, C#, PHP, HTML, CSS, SQL, jQuery, GraphQL, L^AT_EX

Frameworks: React, Redux, TypeScript, Node.js, Express.js, Material-UI, Django, Flask, D3.js

Cloud & DevOps: Google Cloud, AWS, Docker, Digital Ocean, Alibaba Cloud, Heroku, Vercel, Kubernetes, Docker

Design & Animation: Adobe XD, Figma, Photoshop, Inkscape, Canva, GIMP, Maya Animation, Blender

Video Editing & Effects: Adobe After Effects, Adobe Premiere Pro

Tools: Git/GitHub, Unix Shell, Webpack, VS Code, IntelliJ CLion/PyCharm/IDEA, Visual Studio, Powershell, Bash

AI/ML: PyTorch, TensorFlow, scikit-learn, YOLO, Hugging Face, Seaborn, Keras, FastAPI, ML Model Deployment, Data Preprocessing, Feature Engineering, NLP, Neural Networks, Computer Vision, STT, TTS, RAG; Proficient with AI models (GPT, Claude, Gemini) & agents (Copilot, Cursor)

Databases: MySQL, SQLite, PostgreSQL, Microsoft SQL Server, Oracle Database, MongoDB, Redis, Firebase, DynamoDB, Cloud Storage Buckets, BigQuery

Libraries: pandas, NumPy, Matplotlib, Selenium, OpenCV, EasyOCR

LEADERSHIP & ACTIVITIES

International Students' Club of Baku Engineering Uni. | *Board Member / Acting VP* Feb. 2023 – Present
Progressed from Social Media Manager (2nd Semester) to Acting VP (6th Semester), now managing all club operations with full rights. Spearheaded event organization, strategic communications, and international student guidance, fostering a dynamic and supportive community.

Class Representative/Captain | *Horizon G.B.S. School, Kathmandu Model Secondary School* 2013 – 2021

Served as the Class Representative, recognized as one of the best CRs for effective leadership, communication, and coordination between students and teachers. Managed class activities, resolved conflicts, and ensured smooth communication between the class and school administration.

INTERESTS

Technical Interests: Physics, Quantum Science, Cryptography, Evolution, Mathematics, Geopolitics, History

Languages: Nepali (Native), English (Proficient), Hindi (Proficient), Azerbaijani (Beginner)

Soft Skills: Leadership, Communication, Problem-Solving, Teamwork, Critical Thinking, Adaptability