Aarogya Rijal

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, Massachusetts   2022 – 2026
- Bachelor of Science in Computer Science; Major GPA: 4.0.
- Courses including Software Engineering, Machine Learning, Algorithms, Database Systems, and Operating Systems.

United World College (UWC), Pune, India - International Baccalaureate Diploma Programme   2020 – 2022

SKILLS

Frontend: React, TypeScript, JavaScript, SASS, Tailwind CSS, Figma
Backend: Node.js, Adonisjs, Express, Django, Laravel, Python, Java, SQL, REST APIs
Infrastructure: AWS (EC2, Lambda, S3, RDS, DynamoDB), PostgreSQL, MongoDB, Firebase
DevOps & Tools: GitHub Actions, CI/CD, Git, Jest, OpenCV, Agile/Scrum

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PROFESSIONAL EXPERIENCE

Marketing & Communications, WPI, Worcester, MA (Part Time)   12/2023 – Present
Web Developer (wpi.edu)
- Managed **100+ wpi.edu pages** serving **60K+ visitors** monthly**,** using Drupal, Laravel, SASS, JS, TS, & Gitlab.
- Resolved **900+ bugs and errors**, and **migrated whole codebase** from JS to TS**,** reducing runtime errors by **98%.**
- Developed **10+ reusable Drupal blocks** and **site-wide promotional banners** for the President's Inauguration.
- Built **2 automated alert systems** that monitors profile edits, generates daily reports, and sends critical notifications to admins.

Cloud Engineer
- **Built WPI Alexa skill** using ASK SDKs, Node.js, AWS, serving real-time news, announcements and podcasts to the community.
- Implemented **Jest test suite** with **+90% coverage**, reducing production bugs by **80%**.
- Monitored skill performance post-launch, analyzing user interactions & feedback to inform iterative improvements.

Tech Lead – **FounderCloud** (foundercloud.com) (Remote – Part Time)   07/2025 – Present
- Executed **full website migration**; domain transfer, 301 redirects, meta tag updates, and analytics reconfiguration, while preserving search rankings for **30,000+ users.**
- Led **full rebrand** from Starthawk to FounderCloud; designed new logo, redesigned website, and rewrote all site copy.
- Built a feed for users to post, like, and comment on startup ideas, driving active community engagement instead of passive browsing.

Tech Lead – **Sirkoi** (sirkoi.com) (Remote – Part Time)   05/2025 – Present
- **Secured $10,000** in cloud credits to scale a tutor discovery platform currently serving **1000+ tutors and students**.
- **Reduced cloud infrastructure costs by 95%** by migrating infrastructure to AWS EC2 and RDS with automated CI/CD pipelines.
- Oversaw **90+ issues**, **60+ PRs & 500+ commits** across team in 4 time zones, while balancing technical debt with feature iteration.

Market Researcher – **Baato Maps**, Kathmandu, Nepal   10/2024 – 12/2024
- **Led 30+ user interviews** identifying critical UX gaps in local digital map adoption, resulting in **5+ feature recommendations.**
- **Studied digital behavior** of Nepali users **and co-authored a research paper** focusing on the **local use of digital maps**.

STEM Education Facilitator – **Tufts University**, Medford, MA & **Teach for Nepal**, Kathmandu, Nepal   06/2023 – 08/2023
- Facilitated collaboration between **Tufts CEEO & 20 Nepalese teachers** in **co-creation of engaging educational activities**.
- **Developed teaching materials** and **trained 20+ educators** in Nepal, empowering them with practical STEM teaching techniques.

CODING EXPERIENCE

Flash News, Personal Project | *React, Node.js, Python, Gemini API*
- Developed a mobile-first, TikTok-style news feed in React with reusable components and hook-based state management.
- Built an Express API backed by Python ETL pipelines with Gemini API to continuously ingest and serve fresh news content.

Coderot, Personal Project | *React, TypeScript, Node.js, PostgreSQL, DeepSeek API*
- Implemented an AI-driven question generation pipeline using DeepSeek API, and per-question analytics to track user performance.

Hospital Service Manager, Group Project | *React, Typescript, PostgreSQL*
- Built indoor map and service request system with team of 10 using Agile Scrum, completing **40+ user stories over 7 sprints**.

SmartPark, HackHarvard's Best Use of Google Cloud | *Django, OpenCV, Firebase*
- Engineered OpenCV pipeline for real-time spot detection and Django frontend displaying live parking availability across lots.

LEADERSHIP

- UN Speaker on Youth in Technology, Nepal (2022)
- Founder and President of UWC STEAM club (2020-2022), Ullens Makers and Coders Club (2019-2020)
- Student Coordinator for Techraiders Club, Tinkering Lab, Fire & Rescue Drone Project (2020-2022)
- Peer Well-Being Ambassador, Worcester Polytechnic Institute (2023-2024)