Batsal Bhusal

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Kathmandu, Bagmati - 44600, Nepal

EDUCATION

- **Pulchowk Campus**   *2022 - Present*
  Bachelors in Electronics, Communication and Information Engineering   Lalitpur, Nepal

- **SOS HGS**   *2020-2021*
  +2 Science   Bhaktapur, Nepal
  ◦ GPA: 3.68/4

- **Occidental Public School**   *2018*
  SEE   Kathmandu, Nepal
  ◦ GPA: 3.75/4

PROJECTS

- **HomeCam: [Old Mobile Phone Reuse]**   *2024*
  Tools: [YOLO, TensorFlow Lite]
  ◦ Designed an application repurposing old mobile phones for security.
  ◦ Integrated the YOLO algorithm to enable real-time object detection.
  ◦ Utilized TensorFlow Lite to optimize computer vision performance.

- **3x3 Numbers Puzzle Solver: [DSA Project]**   *2023*
  Tools: [BFS algorithm]
  ◦ Developed a solver for the 3x3 numbers puzzle using BFS with optimal $O(b^d)$ complexity.
  ◦ Created step-by-step visualizations to illustrate the solving process.

SKILLS

- **Programming Languages:** C, C++, Python
- **Web Technologies:** HTML, CSS, JavaScript
- **Database Systems:** MySQL, MongoDB
- **Mathematical & Statistical Tools:** Matplotlib, numpy, seaborn
- **Other Tools & Technologies:** Git, GitHub, Latex

HONORS AND AWARDS

- **Finalist in Old Mobile Phone Reuse Competition**   *2024*
  Department of Electronics and Computer Engineering, Pulchowk Campus
  ◦ Recognized for innovative use of old mobile phones as security cameras, leveraging AI and computer vision technologies.
  ◦ Achieved campus-wide recognition and showcased the project to a panel of industry experts and academics.

LEADERSHIP EXPERIENCE

◦
  Sector Chief   *2024*
  20th National Technological Festival, LOCUS 2024
  ∗ Managed 50+ stalls, ensuring smooth operations and timely setup.
  ∗ Increased foot traffic by 30% through improved layout and organization.
  ∗ Led a sustainability initiative, reducing event waste by 20%.

◦
  President   *2024 - Present*
  13th Executive Committee, GAP Pulchowk
  ∗ Leading the executive team and overseeing strategic planning for GAP Pulchowk.
  ∗ Boosted member engagement by 40% through new initiatives.
  ∗ Led a Stock Market workshop in collaboration with reputed Broker.

VOLUNTEER EXPERIENCE

◦

Bagmati Cleaning Campaign *2018*

Nepal Scouts

* Participated in cleanup efforts along the Bagmati River.
* Contributed to improving local environmental conditions and raising public awareness.
* Gained teamwork, communication, and environmental sustainability skills.

CERTIFICATIONS

◦ **Hardware Fellowship** *2022*

◦ **Latex Workshop** *2023*

ADDITIONAL INFORMATION

Languages: Nepali (Proficiency level), English(Proficiency level)

Interests: Reading books, Coding, Trekking