

Aavash Bhattarai

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EDUCATION

Pulchowk Campus, IOE, TU

Bachelors in Electronics, Communication and Information Engineering

Pulchowk, Lalitpur

June 2021 – Present

Uniglobe College

10 + 2

Kamaladi, Kathmandu

June 2018 – Nov. 2020

Key Courses

Security Operations Fundamentals

Logpoint

Cyber Risk Management and Advanced Operations

Logpoint

CERTIFICATIONS

Career Essentials in Cybersecurity

Microsoft and LinkedIn

Nov. 2024

Certified in Cybersecurity

ISC2

Jan. 2025

Introduction to Cybersecurity Job Simulation

Forage - Commonwealth Bank

May 2025

EXPERIENCE

Mentor

Hardware Fellowship

July 2024

LOCUS & Robotics Club

- Guided 30+ students in basic electronics, microcontroller programming, and circuitry during an 8-day fellowship
- Provided hands-on training and support to enhance participants' understanding of hardware systems.

Instructor

Internet Awareness Campaign

Nov. 2024

WIA x CIT

- Promoted responsible internet usage and cybersecurity awareness to over 300 students in Nepal's far-west region.
- Conducted interactive sessions and provided career guidance, fostering digital literacy and encouraging ethical technology use.

Sub Co-ordinator

RoboPop

Jan. 2025

LOCUS

- Coordinated event logistics, including arena setup, match scheduling, and team management, ensuring seamless execution of battles among 10 teams.
- Collaborated with teams to organize the event, quickly resolving scheduling conflicts and operational challenges.

Mentee

SOC Mentorship

May 2025

Vairav Tech

- Learning core fundamentals of a SOC, including roles, responsibilities, and workflow management
- Setting up log monitoring and collection mechanisms using the ELK stack for real-time security analytics
- Working with alerting mechanisms to identify and triage suspicious activities, while gaining client handling skills

PROJECTS

Automated Plant Care System | *React, AWS S3, AWS IoT Core*

Completed *March 2025*

- Collaborated with a team to develop a web application that provides real-time data on greenhouse parameters.
- Designed and implemented administrative controls and security measures to manage and safeguard the app.
- Currently setting up hardware to create and optimize microclimate zones for plant growth within the greenhouse.

Tenzies on web | *React, CSS*

Completed *Oct. 2024*

- Developed a web-based Tenzies dice game with interactive gameplay.
- Implemented a scoring system and high score tracking using localStorage for persistent data storage.

Visualization of Artificial Bee Colony Algorithm | *Python, Matplotlib*

Completed *Aug. 2024*

- Developed a visualizer for the Artificial Bee Colony (ABC) algorithm to solve the Traveling Salesman Problem.
- Collaborated with a teammate to implement both open-loop and closed-loop configurations, optimizing route selection and efficiency.

Home Assistant in local language | *Python, OpenAI API*

Completed *Nov. 2023*

- Developed a Home Automation Assistant capable of understanding and responding to Nepali commands.
- Designed and trained a custom wakeword detection model using a self-curated dataset
- Integrated OpenAI's NLP model for command recognition to enhance functionality after dataset limitations were identified.
- Implemented predefined automation functions triggered by wakeword activation.

Premier League Clone | *React, PostgreSQL, Node.js*

Completed *July 2023*

- Constructed a fully functional web app for tracking match updates, team stats, and player details.
- Worked with a team to integrate frontend and backend in the Premier League Clone app.

OpenGL Infinite Runner | *OpenGL, GLFW*

Completed *March 2023*

- Developed an infinite runner game using OpenGL and GLFW.
- Implemented random obstacle generation and object collision detection mechanics to enhance gameplay experience.

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, SQL, Python

Cybersecurity tools: YARA, ELK, Splunk