

# Basab Jha

Fullstack Developer/ML Engineer

Bhaktapur, Nepal, 44800

[basabjha.dev@gmail.com](mailto:basabjha.dev@gmail.com) | [+977 982-1541655](tel:+977982-1541655)

[basabjha.com.np](https://basabjha.com.np)

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## EDUCATION

Tribhuvan University

Bachelors of Science in Computer Science And Information Technology

Kathmandu, NP

Feb 2023 - Present

**Relevant Courseworks:** Data Structures and Algorithms, Python, Database Management Systems, Discrete Mathematics, Computer Architecture, Artificial Intelligence, theory of Computation

**Languages:** Python, Javascript, C, Rust, Julia

**Database:** Postgres, MongoDB

**Tools:** git, Github, Gitlab

**Additional:** Supabase, Firebase,

Linux(Manjaro/Arch/Ubuntu/CentOS)

**Web:** Django, Next.js, React, Vue.js,

Node.js, Express

**Machine Learning:** Tensorflow, Scikit-learn,

Pandas, Keras

## EXPERIENCE

intellecta.ai

Remote

Research Intern

July 2023 – Aug. 2023

- Focused on data preprocessing, feature extraction, and model training using Python and TensorFlow.
- Conducted extensive data analysis to identify patterns and trends in large datasets, utilizing tools such as Pandas, NumPy, and Matplotlib
- Worked closely with senior researchers and data scientists, contributing to team meetings and presenting findings

⇒ [intellecta.ai](https://intellecta.ai)

Himalayan Academy Boarding School

Bhaktapur, NP

Website Design Intern

Nov. 2023 – Jan. 2023

- Redesigned The HABS website to be more user-friendly, increasing available resources for staffs and student
- Used MongoDB and NodeJS to setup a server side system for Hosting files, managing userdata and handling user requests, enhancing the user-experience

⇒ [habs.edu.np](https://habs.edu.np)

CloudVista Technologies

Remote

Remote Backend Developer Intern

Sept. 2023 – Nov. 2023

- Optimised API calls and structure to decrease memory usage by 50% and sped up query time by 45%
- Used Javascript, MongoDB and REST APIs, to allow users to modify and receive notifications upon deal updates and dealership messages
- Helped develop internal tools to automate end-to-end user testing utilising Django and JWT, increasing coverage by 70%
- Designed a webpage utilising React, HTML/CSS and Tailwind and connected it to cloud services to provide an interactive platform for users

⇒ [cloudvista.tech](https://cloudvista.tech)

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## **PERSONAL PROJECTS**

### **Breadit**

April 8 2024 – June 17 2024

A Community a website similar to Reddit where users can view and share links or text posts for others to see, built using Next.js, Prisma, PostgreSQL, Supabase & TailwindCSS.

Users can create their own community (Subreadit), post (links, images, texts) and interact with it (comment/upvote/downvote).

⇒ [breadit-wheat-vercel.app](https://breadit-wheat-vercel.app)

### **HABS**

Dec. 17, 2023– April 12 2024

A Website with features like contact form, appointment-ticketing system and Admission portal I built for a school with PEVN stack (PostgreSQL, Express.js, Vue.js, Node.js) and Supabase.

⇒ [habs.edu.np](https://habs.edu.np)

### **PassSentinel**

Oct. 20, 2023 – Nov. 4, 2023

A simple password manager made with Python and libraries like `tkinter`, `bcrypt`, `fernet` and SQLite for database.

Users can automatically add, update a password and delete it. Also can be integrated as a browser extemsion.

⇒ [PassSentinel \(github\)](https://github.com/PassSentinel)

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## **CERTIFICATIONS**

- [Introduction To Machine Learning](#)
- [Machine Learning With Python](#)
- [NLP Language Detection](#)
- [Introduction to Linux](#)
- [Getting Started with Rust](#)

## **AREAS OF INTEREST**

- Natural Language Processing
  - Neural Networks
  - Linux
  - Research & Development
  - GAN/RAG
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