

UJJWAL PAUDEL

Software Intern

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• Balkhu-Kirtipur, Kathmandu, Nepal

Summary

Skilled **computer engineering student** specializing in **Django and React** for **web development**. Enthusiastic problem solver with a strong interest in applying **AI/ML** to real-world problems.

Actively seeking a software internship to refine my skills and infuse innovation into your team.

Technical Skills

Languages: Python • Javascript • C • C++ • HTML • CSS

Web Development: Django • Django REST Framework • React

Machine Learning: Numpy • Pandas • Keras • OpenCV • Pytorch • FastAI • Tensorflow

Dev Tools: Visual Studio Code • Sublime • Git • Github • Jupyter Notebook • Google Colab • Kaggle

Databases: MySQL • PostgreSQL • SQLite

Education

Institute of Engineering, Thapathali Campus

Bachelors in Computer Engineering

2019 - Present

Kathmandu Bernhardt College

+2 / Science

2017 - 2019

Projects

Heritage Lens

Django, DRF, Flutter

An **AI-based mobile application** for recognizing and learning about monuments in Valley's Durbar Square (**Minor Project**)

- Trained **Object Detection** models i.e. **YOLO, SSD** and integrated them into **Flutter App using Django REST Framework**.
- Collaborated with a 4-member team, completing the project in 3 months.
- [Demo Video](#) [Code Link \(API\)](#) [Code Link \(Mobile App\)](#)

Bagchal

React JS

A traditional Nepalese two-player board game of Tiger and Goat.

- Designed and deployed a **React-based** application for Bagchal.
- Implemented an **AI bot** using the **Minimax algorithm** for an enhanced gaming experience.
- [Live Demo](#) [Code Link](#)

EZ-Crossword

Django, NLP

An **NLP-based AI tool** for automatic crossword solving and generation. (**On-going Major Project**)

- Trained a **QA model** (BERT from Huggingface) for generating answers to crossword clues.
- Utilized **Belief Propagation** and a greedy **A* search algorithm** to fill crossword grids.
- Developed a **web app** using **Django** for crossword solving, with the generation component under development.
- [Code Link](#)

Productivity Companion

C++, SQLite, SFML

A desktop application offering a suite of productivity and mental simulation tools.

- Collaborated with four team members to develop a **C++ desktop application**.
- Includes features such as a Pomodoro Timer, Todo List, Study Scheduler, and Sudoku game for efficient time management and enhanced focus.
- [Code Link](#)

2048 Game

React JS

Popular 2048 Number Game

- Developed and deployed the popular 2048 game using **React**, offering an engaging gaming experience.
- [Live Demo](#)

Core Competencies

Technical Skills

Problem Solving

Project Planning

Research

Communication

Adaptability

Courses & Certificates

Programming for Everybody (Getting Started with Python) — [Coursera](#)

Python Data Structures — [Coursera](#)

HTML, CSS, and JavaScript for Web Developers — [Coursera](#)

Web Application Technologies and Django — [Coursera](#)

Using Python to Access Web Data — [Coursera](#)

SQL for Data Science — [Coursera](#)