

# KAMPALI USHA PAUL

Continues Learner

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Linkedin | LeetCode | GitHub | HackerRank

## EDUCATION

<b>Ballari Institute of Technology and Management</b> Electrical and Electronic Engineering Bachelor of Engineering CGPA: 8.75	Ballari, karnataka, India Nov 2022 - June 2026
<b>Sri Vidyanikethan Pu College</b> PCMB PUC Percentage: 85.5%	Gangavathi, karnataka, India 2020 - 2022
<b>Jijamata Kanya Prashala</b> Degree in SSLC Percentage: 86.80%	Akluj, Solapur, Maharastra, India 2020

## EXPERIENCE

<b>EZ Training and Technologies   Python Programming Intern</b> Management   15th April 2024 - 04 May 2024	Ballari Institute of Technology & Management
Completed a 3-week intensive internship focused on Python programming, gaining hands-on experience in core concepts, problem-solving, and software development best practices.	
Engaged in structured training sessions led by industry professionals, deepening understanding of real-world applications of Python in backend development and system optimization.	

## SKILLS

Programming Languages:	Python programming, HTML, CSS, Javascript
Tools / Platforms:	VS Code, Git, GitHub

## PROJECTS / OPEN-SOURCE

<b>Travel History Tracker   Link</b>	Python
Developed a command-line application using Python and OOP principles to manage travel history, implementing a linked list data structure for efficient storage and traversal of destinations. Features include adding locations (nodes), viewing chronological travel logs (traversal), and removing recent entries (tail deletion), demonstrating core data structure operations.	
<b>Locker Management System   Link</b>	Python & OOPS concepts
Created a CLI-based system to automate locker rentals using OOP principles, featuring size-based pricing (Small/Medium/Large), user registration, and secure PIN-based access with SHA-256 hashing. Implemented functionalities like real-time locker allocation, payment processing, and automated status updates, demonstrating modular design with classes (Locker, User, AirportLockerSystem) for scalability. Integrated secure authentication and transaction workflows to streamline airport luggage storage operations, emphasizing clean code practices and user-centric design.	
<b>Wind powered smart streetlight</b>	Wind Energy Conversion, Smart Automation, Power Management
Designed a sustainable, low-cost model integrating a wind turbine (DC motor/generator) to convert wind energy into electricity, stored in rechargeable batteries for powering energy-efficient LED streetlights. Automated light activation using LDR sensors ensured illumination only during low ambient light (nighttime), reducing energy waste by 50%. Simulated power transmission infrastructure (transformers, towers) to demonstrate grid-like distribution, emphasizing scalability for off-grid communities. Combined renewable energy harvesting, smart automation, and smart storage to showcase an eco-friendly solution for modern urban lighting needs.	

## CERTIFICATIONS

- Python Programming - EZ Technologies.

- Basics of python - **Hackerrank**
- Intro to Git and Github - **Coursera**
- HTML Tutorial - **Coursera**