Abhinav Pandey

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OBJECTIVE

To gain exposure, enhance my skills and always be ready to learn new things.

EDUCATION

2021-2025 — **B.Tech in Computer Science and Engineering (Artificial Intelligence)**, *Amrita Vishwa Vidyapeetham, Amritapuri, Kerala*
Ongoing

2018-2020 — **Uniglobe Higher Secondary School**, *Kamaladi, Kathmandu, Nepal*
GPA : 3.64/4

2019 — **Valley View English School**, *Mid-Baneshwor, Kathmandu, Nepal*
GPA : 3.85/4

EXPERIENCE

Jan 2023 - Present — **Member and Mentor @amFOSS**
I am proud to be a member of @amFOSS, India's leading FOSS and Computer Science Club. As an active participant, I contribute to open-source organizations and engage in real-world software development projects. I provide daily status updates, create technical roadmaps, and receive valuable mentoring from senior members or alumni in tech companies and research all over the world. Additionally, I take on the role of a mentor, guiding juniors in code reviews of their projects and helping them get started with open-source contributions.

September 2022 - Present — **Open Source Contributor**
I have been involving in open source community via projects, GSOC and MLH. I have contributed to Wikimedia, Casbin, CNCF.io, Samagra Development and so on.

PROJECTS

Hamrokinmel — **Tech stack: React, Mongo, Express, Node**
HamroKinmel is an ongoing ecommerce web application developed using the MERN stack with Redux for state management, following the MVC (Model-View-Controller) architecture. The project incorporates models such as admin, cart, and product, which handle data storage and manipulation. Middleware functions are utilized for various purposes, including user authentication and session management, data validation, and error handling. The application employs packages like cookie-parser for parsing cookies, bcryptjs for encrypting passwords, and jsonwebtoken for generating and verifying tokens. Error handlers are implemented to gracefully handle and respond to any encountered errors, providing a smooth user experience. With the integration of proper MVC structure, middleware, and error handling mechanisms, HamroKinmel ensures efficient data flow, security, and robustness throughout the web application.
Link to project: HamroKinmel

Grocery Management System — **Tech stack: JAVA Swing, MySQL, MVC**
Grocery Management System is a Java Swing application built with an MVC architecture and MySQL connectivity. It serves as a billing system for a grocery store, featuring three roles: customer, cashier, and supplier. Customers can add items to their cart, cashiers can process checkouts and generate bills, and suppliers can manage stock by adding items. The system's modular design ensures efficient data manipulation, user-friendly interfaces, and seamless interaction with the MySQL database, facilitating streamlined operations and effective management of grocery store transactions.
Link to project: Grocery Management System

Story Wizard — **Tech stack: React, Flask, GPT-3 Turbo**
Story Wizard is made by myself and my team CyberAmigos at Hackverse4.0, which won us the first prize of Rs.75,000. It's a user-friendly app that uses GPT-3 Turbo api and Google Cloud Text-to-Speech to make storytelling engaging and fun for children. It offers a wide range of pre-made stories on various topics and allows kids to generate personalized stories based on their interests. The app also includes an interactive feature where children can ask follow-up questions about the stories and receive narrated answers.
Link to project: StoryWizard

Software Inventory — **Tech stack: Electron js, Next js, Python**
Software Inventory is a comprehensive system analyzer designed to proactively notify users of any vulnerabilities present in the dependencies utilized within their projects. Currently, the system supports Node and Python packages. By leveraging advanced scanning techniques, it identifies potential security issues and promptly alerts users, empowering them to take necessary actions to mitigate risks. Whether it's outdated packages, known vulnerabilities, or other concerns, Software Inventory serves as a valuable tool for ensuring the integrity and security of software projects.
Link to project: Software Inventory

HACKATHONS

May 3rd - May 4th 2023 — **Amrita Blockcamp**
Me and my team Spade participated and won a 36-hour Blockchain hackathon at Amrita Vishwa Vidyapeetham, Amritapuri by Devfolio.Our project Publ.it, an NFT marketplace for research papers deployed on polygon testnet and Frontend build on React.
Project : Publ.it

April 15th - April 16th 2023 — **Hackverse 4.0 @ NIT-K Surathkal**
Me and my team CyberAmigos participated and won a 24-hour hackathon at NIT Surathkal, Karnataka by Devfolio. Our project StoryWizard, a narrative story generator web app based on GPT-3 Turbo, won us the first prize of Rs. 75,000.
Project : StoryWizard

Feb 25th - Feb 27th 2022 — **Wikimedia Hackathon**
I attended the Wikimedia-amFOSS hackathon at Amrita Vishwa Vidyapeetham. It was a 2 day hackathon, I made two contributions to Wikimedia's Videocuttool and understood how to make contributions for Wikimedia's open source projects.
Contributions : Issues and PR

Oct 1st - Oct 3rd 2022 — **NASA Space Apps Challenge**
I participated in the NASA Space Apps Challenge 2022 at Kathmandu, Nepal where we chose the problem of Tracking International Space Station in 3D. So we create a ThreeJS based web application, Wonder Animation which can track the current track and location of the space station in 3D.
Project : Wonder Animation

LANGUAGES

English — Full Professional Proficiency
Nepali — Native Tongue, Full Professional Proficiency
Newari — Full Professional Proficiency
Hindi — Full Professional Proficiency

COMPUTER SKILLS

OS — Linux, Windows
Languages — Python, Java, JavaScript, SQL, Dart, XML, Bash
VCS — Git, Gerrit
Other Skills — Web and App Development, Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS

INTERESTS

Technical — Software development, Cloud computing, Computer Networking
Hobbies — Travelling, Contributing to Open Source, Musician

PERSONAL DETAILS

DOB — 9 July, 2002
Residence — Kollam, Kerala, India
Status — Student