

KHAGENDRA KARKI

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SUMMARY

Enthusiastic Computer Science student with a passion for web development. Proven ability to quickly grasp complex concepts and adapt to new challenges. Possess good communication and interpersonal skills with a proven ability to work independently and as part of a team.

EDUCATION

- Pulchowk Campus, TU**
Pursuing Bachelor's Degree in Computer Engineering 2021 – 2025 (Expected Graduation Year)
- White House International College**
Higher Secondary with Science Stream 2018 – 2020
- Jhapa Model English School**
SEE – 2018

SKILLS

- Programming Languages:** C, C++, Python, JavaScript, and Rust.
- Design Tools:** Figma, Canva
- Web Development**
Front End: NextJS (React), Redux, MUI (components)
Back End: Node (Express).
Database: SQLite, MySQL, MongoDB
- App Development:** ReactNative
- Excellent experience working with the **Linux** development environment including system calls and shell scripting.
- Others:** LaTeX, Git, Docker

PROFESSIONAL EXPERIENCE

- Frontend Intern**
10 Orbits | 2022 October –December
- Worked on the home page of [IME Remit](#)
 - Converted figma designs to static webpage using bootstrap and vanilla javascript
 - Worked on making the design responsive for all screens
 - Made sure the layout was responsive based on Google's Lighthouse Metric

PERSONAL PROJECTS

- VACA - Ecommerce Website**
 - Designed and developed a full-fledged ecommerce website for a clothing manufacturer
 - Implemented functionalities for product listings, shopping cart, secure payment gateway (esewa), and user management.
 - Created a secure endpoints for the frontend to fetch and verify data using JWT and firebase.
 - Successfully hosted it on remote server using nginx
 - Made a CI/CD pipeline for the project for automatic integration and deployment using github actions
- KAAMSEWA - On demand Home Service App**
 - Developed a full-stack application allowing users to conveniently book various home services from trusted providers.
 - Built a user-friendly interface using Next.js and MUI for browsing services and booking appointments.
 - Implemented a real-time management system for service providers and bookings using Redux and Express.
 - Integrated external API for additional functionality like sms verification (twilio) and location (open street map).
 - Leveraged Firebase for secure user authentication and MySQL for efficient data storage.
- MITRATA - A Social App using LSM and Bloom Filters**
 - Developed Mitrata, a social matching mobile application inspired by Tinder.
 - Designed and implemented a high-performance database architecture using an LSM tree for efficient writes and Bloom filters to optimize read queries.
 - This innovative approach reduced the average write time to a constant time complexity (O(K)) and the read time to a logarithmic time complexity.