

Jorpati Kathmandu,  
Nepal  
+9779861638434

# Nitesh Raj Khanal

nitesh.khanal19@gmail.com  
<https://github.com/neeteshraj>

## Education

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**Basundhara Kathmandu, Nepal**      **Canvas International College**      **August 2014 | April 2016**

- Higher Secondary in Physical Science. GPA: 3

**Chabahil Kathmandu, Nepal**      **Tribhuvan University**      **September 2017 | April 2022**

- BSc. CSIT in Computer Science. GPA: 2.7

## Work Experience

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**Software Engineer - Intern**      **Diagonal Technologies**      **Nov 2021 – Mar 2022**

Sankhamul Kathmandu, Nepal

- **Immersive Software Development Environment:** I worked in a very team-oriented and immersive software development environment throughout my internship. By collaborating with seasoned experts, I was able to acquire valuable knowledge about industry standards, techniques, and resources, which established a strong basis for my future in software engineering.
- **Implementation of C4 Architecture:** I took an active part in putting C4 architecture, a reliable approach for describing and visualizing software design, into practice. I helped to create clear and succinct architectural diagrams using C4 architecture principles, which helped the development team communicate and make decisions more effectively.
- **Proficiency with Node.js, Express, and Relational Databases:** During my internship, I developed my knowledge of Node.js, Express, and relational databases, utilizing their functionalities to create software that is both scalable and effective. My comprehension of server-side programming has improved as a result of my practice with and utilization of these technologies, which have given me firsthand experience developing backend systems and APIs.
- **Creation of Human Resource Management Software:** Being able to contribute to the creation of a Human Resource Management Software (HRMS) was one of the highlights of my internship. Using my expertise in Node.js, Express, and relational databases, I took an active part in the HRMS project's design, development, and testing stages. My contributions were important in providing an all-inclusive and intuitive software solution that improved organizational productivity and streamlined HR procedures.
- **Methodologies for Agile Development:** I took an active part in sprint planning, daily stand-ups, and retrospectives during my internship. I developed responsiveness and adaptability by adopting Agile principles, which allowed our team to provide excellent software solutions quickly and repeatedly.
- **Documentation and Knowledge Sharing:** I took the effort to record project procedures, best practices, and lessons learned after realizing how important they are. I helped the team transfer information by producing thorough documentation, which enabled colleagues to build on preexisting ideas and quicken their learning curve.
- **Quality Assurance and Testing:** I actively participated in quality assurance and testing efforts, contributing to the creation and execution of test cases, bug tracking, and regression testing. Through meticulous attention to detail and rigorous testing protocols, I ensured the delivery of software solutions that met high standards of quality and reliability.

**React Native - Intern**      **AMNIL Technologies**      **Apr 2022 – Sept 2022**

Jhamsikhel Lalitpur, Nepal

- **Creative Mobile App Development:** Using React Native to build dynamic and responsive apps, I explored the field of mobile app development during my internship. By means of practical experience and mentorship, I developed my ability to create resilient and intuitive mobile apps that cater to the requirements of contemporary consumers.
- **Advanced TypeScript Implementation:** Throughout my internship, I investigated the use of TypeScript, a JavaScript superset that improves the readability and maintainability of code. I increased type safety and code quality by using TypeScript, which made our React Native apps' codebase more reliable and scalable.
- **Staging QFX Cinemas Ticket Booking Application:** Working with React Native to construct a Staging QFX Cinemas Ticket Booking Application was one of the highlights of my internship. Through this project, I was able to put my knowledge of mobile app development to work by giving consumers a smooth and easy way to buy tickets, which helped me become even more proficient with React Native.
- **Adoption of Clean Code Architecture:** Writing understandable, manageable, and scalable code was my major emphasis as I became fully immersed in the concepts of Clean Code architecture. I helped create software solutions that were simple to comprehend, adapt, and expand by using Clean Code guidelines, which encouraged productivity and teamwork within the development team.
- **Software Development to assist User Workflows:** I had an active role in the creation and application of software solutions to assist user workflows throughout my internship. Through my technical expertise and comprehension of user requirements, I have played a part in the development of software programs that have improved efficiency and productivity.
- **Proficiency with Code Versioning:** Using GitHub and Git to manage and monitor changes to our codebase, I developed a solid grasp of code versioning procedures. I made sure that our development procedures were transparent, collaborative, and efficient by following best practices for code versioning.
- **Fastlane implementation:** As part of my internship, I worked closely with the team to develop Fastlane, a potent tool for automating the deployment process. I expedited the release process for our React Native apps by utilizing Fastlane, allowing for a speedy and effective deployment to app stores.

**React Native - Software Engineer**

**AMNIL Technologies**

**Sept 2022 – Present**

Jhamsikhel Lalitpur, Nepal

- **Engagement with the Open Source Community:** A significant aspect of my role involves active engagement with the open-source community to encourage collaboration and implement mission-critical software fixes. React Native's rapid evolution often introduces changes that may impact existing projects, and through my involvement in the open-source community, I stay abreast of the latest developments, contributing to the stability and reliability of our applications.
- **Migration to TypeScript:** I spearheaded the migration of old JavaScript projects to TypeScript, leveraging the benefits of static typing to enhance code quality, maintainability, and developer productivity. By embracing TypeScript, I ensured smoother development workflows and improved code maintainability across our projects.
- **Utilization of Native Build Tools:** With a solid understanding of native build tools such as Xcode, Gradle (Android Studio, IntelliJ), I seamlessly integrate React Native applications with native platform functionalities. This enables us to leverage the full potential of each platform while delivering high-performance and native-like experiences to our users.
- **Pixel-Perfect UIs and Deep Integrations:** I am committed to building pixel-perfect, buttery smooth UIs that provide an exceptional user experience across both iOS and Android platforms. Leveraging native APIs, I facilitate deep integrations with platform-specific features, ensuring seamless functionality and optimal performance.
- **Bug Diagnosis and Performance Optimization:** A key aspect of my role involves diagnosing and resolving bugs and performance bottlenecks to deliver an experience that feels native. Through

meticulous analysis and optimization, I enhance the performance and responsiveness of our applications, elevating user satisfaction and retention.

- **Transitioning Web Apps to React Native:** I am actively involved in transitioning existing React web applications to React Native, leveraging my expertise in both technologies to facilitate a smooth and seamless transition. By reusing existing code and components where applicable, I streamline the migration process while ensuring consistency and compatibility across platforms.

## FullStack Developer

## Evaheld Memorials

Nov 2022 – June 2023

608 Harris St, Ultimo NSW 2007, Australia (Remote)

- **NEXTJS Development Expertise:** As a NEXTJS Developer, I leveraged my expertise in this cutting-edge framework to develop dynamic and performant web applications. By harnessing the power of NEXTJS, I ensured fast load times, enhanced SEO capabilities, and seamless server-side rendering for an optimal user experience.
- **Company Website Development:** As the lead Fullstack Developer, I spearheaded the design, development, and maintenance of the company's website. From conceptualization to deployment, I was involved in every stage of the website's lifecycle, ensuring its alignment with the company's branding and business objectives.
- **Proficiency in GraphQL and Prisma:** I demonstrated proficiency in GraphQL and Prisma, utilizing these technologies to streamline data fetching and manipulation processes. By implementing GraphQL for efficient data querying and Prisma for database management, I optimized the performance and scalability of our web applications.
- **Hands-On Experience with NextJs and TypeScript:** My hands-on experience with NextJs and TypeScript enabled me to develop robust and type-safe applications that adhere to best practices in modern web development. By leveraging the advanced features of NextJs and TypeScript, I ensured code reliability, maintainability, and scalability.

## Skills

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- **Technical Skills:** Programming Languages: JavaScript, TypeScript, Java, Mobile Development Frameworks/Libraries: React Native, Web Development Frameworks/Libraries: React.js, Next.js, Backend Technologies: Node.js, Express.js, Database Management: GraphQL, Prisma, MongoDB, MySQL, Version Control: Git, GitHub, Development Tools: Visual Studio Code, Postman, UI/UX Design: HTML5, CSS3, Styled Components, Deployment and Automation: Fastlane, GitLab Actions, Testing Libraries: Jest,
- **Non-Technical Skills:** Agile Development: Proficient in Agile methodologies with experience in Scrum framework., Problem-solving: Proven ability to analyze and solve complex problems efficiently., Collaboration: Strong team player with excellent communication and interpersonal skills., Time Management: Strong organizational skills with the ability to prioritize tasks effectively, meet deadlines, and adapt to changing priorities in fast-paced environments.

## Projects

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- **NCELL Mobile Application** (<https://play.google.com/store/search?q=ncell+app&c=apps>) Spearheading the development of a cutting-edge React Native application for a renowned telecom giant, this project aimed to redefine customer engagement in the telecommunications industry. The application served as a comprehensive marketplace offering a myriad of services including voice packs, data packs, presents, and customized ringback tones (PRBT). Through seamless integration of React Native, TypeScript, and Redux Toolkit, our team delivered a user-centric platform, ensuring customers effortlessly explored and engaged with the telecom firm's offerings. Employed React Native to craft a native mobile experience catering to both iOS and Android users, ensuring a fluid and intuitive interface. Leveraged TypeScript to elevate code quality and type safety, mitigating runtime errors and fostering a robust and maintainable codebase. Orchestrated deployment processes

using Fastlane, enabling rapid feature rollout and iteration, ensuring a dependable and seamless user experience. Cultivated a collaborative and efficient team environment through the automation of development cycles using GitLab Actions, enhancing productivity and cohesion. Implemented Axios to handle data retrieval efficiently, ensuring real-time synchronization with backend services, and enhancing overall application speed. Styled Components were utilized to maintain a consistent and visually appealing interface, enhancing user satisfaction and brand recognition. React Native, TypeScript, Redux Toolkit, Fastlane, GitLab Actions, Axios, Styled Components, RESTful APIs, End-to-End Encryption Protocols, Payment Gateway Integration, User Interface Design, Performance Optimization, Scalability Planning

- **FCUBE Mobile Application** (<https://play.google.com/store/search?q=fcube&c=apps>) Revolutionizing the movie ticket booking experience, our team developed a state-of-the-art React Native application that streamlined the process of browsing, booking, and paying for movie tickets. Through the seamless integration of React Native, TypeScript, and Redux, the application provided users with a seamless platform to explore current and upcoming movies, watch trailers, reserve seats, and complete transactions using various payment methods. By prioritizing user convenience and accessibility, we transformed the movie ticket booking journey into a delightful and intuitive mobile experience. Utilized React Native to build a dynamic and responsive mobile application compatible with both iOS and Android platforms, ensuring a seamless user experience across diverse devices. Implemented TypeScript to enhance code readability, maintainability, and type safety, establishing a robust and scalable codebase adaptable to evolving requirements. Leveraged Redux for efficient state management, enabling seamless data flow and ensuring a consistent user experience throughout the application. Employed Styled Components to create visually appealing and customizable UI components, enhancing the overall interface and user experience. Integrated Axios for seamless communication with backend APIs, facilitating real-time data retrieval and updates, and ensuring a smooth user experience. Implemented Fastlane to automate the deployment process, streamlining app releases and ensuring timely updates for users, thereby enhancing user satisfaction and retention. React Native, TypeScript, Redux, Styled Components, Axios, Fastlane, Hook Form, Real-Time Data Synchronization, Cross-Platform Compatibility, Payment Gateway Integration, User Experience Optimization
- **ePharmacy** (<https://play.google.com/store/search?q=ePharmacy&c=apps>) Redefining the online shopping experience for pharmaceutical and beauty products, our team developed a cutting-edge React Native application aimed at providing users with an intuitive platform to browse, order, and securely complete transactions. Through the seamless integration of React Native, TypeScript, and Redux Toolkit, the application streamlined the process of purchasing essential healthcare and beauty items, enhancing user convenience and accessibility in online shopping. Leveraged React Native to build a versatile mobile application that delivers a seamless and responsive experience across various devices and operating systems, ensuring widespread accessibility and usability. Implemented TypeScript to enhance code quality and maintainability, establishing a solid foundation for future enhancements and iterations, thereby ensuring scalability and adaptability. Utilized Redux Toolkit for efficient state management, ensuring seamless data flow and consistent application behavior throughout the user journey, thereby enhancing overall user satisfaction and retention. Employed Styled Components to design and style UI elements, creating a visually appealing and cohesive user interface that enhances the overall shopping experience, thereby driving user engagement and conversion. Integrated Axios to facilitate communication with backend APIs, enabling real-time data retrieval and updates to keep product information accurate and up to date, thereby ensuring user trust and loyalty. Implemented Fastlane automation to streamline the deployment pipeline, expediting the release process and ensuring timely delivery of updates and new features, thereby enhancing user satisfaction and retention. React Native, TypeScript, Redux Toolkit, Styled Components, Axios, Fastlane, UI/UX Design Principles, Data Management, E-commerce Functionality, Deployment Automation, Responsive Design, Push Notifications Integration, Analytics Implementation
- **MBL Connect** The Intranet Mobile Application was a pivotal project aimed at enhancing commu-

nication and collaboration within a prominent bank's workforce. Serving as a centralized platform, it facilitated internal news dissemination, document management, employee directory access, and event notifications. By providing these features, the application aimed to boost overall operational efficiency and foster greater employee engagement within the organization. Leveraging React Native, I developed a cross-platform mobile application compatible with iOS and Android devices. I implemented Redux for centralized state management, ensuring efficient data flow and consistent application behavior. Utilizing TypeScript, I elevated code quality, readability, and maintainability, ensuring a robust and scalable codebase. Integration of Axios enabled seamless communication with backend APIs, ensuring real-time data updates. Incorporating Firebase Cloud Messaging (FCM) facilitated push notification delivery for timely dissemination of important announcements. Additionally, I developed custom JavaScript libraries and native modules to extend functionality, enhancing performance and enabling access to native device capabilities. Advanced Background Processing Techniques, Integration with Advanced Database Solutions, Usage of Advanced Debugging and Profiling Tools, Integration with Advanced Push Notification Services, Advanced State Persistence Solutions, Integration with Advanced Bluetooth and NFC Technologies, Advanced UI/UX Prototyping Tools

- **Nagarik News** (<https://play.google.com/store/apps/details?id=com.bajratechnologies.nagariknews>) Contributing to the development of NewsStream, a cutting-edge web platform revolutionizing news consumption, I utilized React-Native, Redux Thunk, Firebase, and a secure payment gateway to deliver real-time updates, personalized content, and subscription management. Ensuring adherence to UX/UI standards and platform responsiveness, the platform prioritized secure handling of user data to comply with privacy regulations. Utilizing React-Native for frontend development, I created a dynamic cross-platform app optimized for iOS and Android devices. Designing user interfaces with a focus on accessibility, engagement, and adherence to UX/UI standards, I ensured a seamless and intuitive user experience. Integration of Redux Thunk managed asynchronous actions and complex state, ensuring smooth application behavior and data flow. Incorporating Firebase Authentication for secure user login and authorization, I prioritized user data security and privacy compliance. Throughout the application, I ensured secure handling of user data, implementing robust security measures to protect user privacy. Deployment of the application to the App Store using Fastlane streamlined the release process, ensuring timely delivery of updates and new features. React-Native, Redux Thunk, Axios, Firebase, Fastlane, Media Streaming and Playback Solutions
- **Ncell EKYC** As the lead developer, I spearheaded the conceptualization and execution of the Ncell EKYC project, a transformative application pivotal in optimizing SIM card sales operations at Ncell centers. Leveraging state-of-the-art React Native architecture, I meticulously implemented robust unit testing frameworks to ensure the application's stability and reliability. By seamlessly integrating Axios, I facilitated secure API communication, while custom native libraries were engineered to cater to specific functionality requirements, enriching user experience and operational efficiency. Additionally, the adoption of Fastlane automation streamlined deployment processes, expediting releases and ensuring prompt updates. This project underscores my proficiency in React Native development, intricate architectural design, rigorous testing methodologies, and streamlined deployment practices, ultimately contributing to the seamless facilitation of SIM sales processes for Ncell Telecommunications. React Native, Jest, Typescript, Axios, Custom Native Libraries, React Native Paper, Fastlane, Encryption Algorithms, Asynchronous Programming Techniques, Keychain and Keytores to store sensitive data across ios and Android.

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## Certificate

- **MERN Stack Certificate** (Broadway Infosys) Certified for successful completion of MERN Stack training and completing the project. Dec 2021