

Bishal Singh

Software Engineer - Mobile App Developer - Notik Offerwall

Paphos, Cyprus

bishalsinghh17@gmail.com

Education

BE in Information Technology

Cosmos College of management and technology Tutepani

August 2009 to January 2014

- Dean's List Achiever, obtaining a CGPA of 3.96 out of 4.
- Merit List achiever (8 out of 8 semester)
- University Topper in Information Technology Department and 5th University topper overall of Pokhara University, among 2009 Batch students.
- Designed and Developed an Android Application, which was later awarded by government for the first digital mobile app to connect doctors with patients and hospitals, named HAMRO DOCTOR.

Work Experience

Software Engineer

Notik Offerwall - Paphos, CY

JAN 2021 to Present

Role as a Mobile App Developer:

- Design and Build sophisticated and highly scalable apps using Flutter as well as Kotlin for Native App.
- Build custom packages in Flutter using the functionalities and API already available in native Android and IOS.
- Translate and build the designs and Wire frames into high quality responsive UI code.
- Explore feasible architectures for implementing new features.
- Resolve any problems existing in the system and suggest and add new features in the complete system.
- Suggest space and time efficient Data Structures.
- Follow the best practices while developing the app and also keeping everything structured and well documented.
- Use CI/CD for smooth deployment.
- Document the project and code efficiently.
- Manage the code and project on Git in order to keep in sync with other team members and managers.
- Ensure security guidelines are always followed while developing the app.
- Consulting with our customer facing representatives about software system design and maintenance.
- Perform time profiling and memory leaks assessment.
- Write tests for the App.

Libraries: many of the picture optimization related as well as most of the popular flutter pub.

Role as a Web Developer:

- ❑ Working as a backend developer, using Laravel(PHP) as well as Express (Node JS) frameworks.
- ❑ Speed optimization using a custom made cursor pagination in laravel.
- ❑ Design System architecture, workflows, and integrating frontend, based on Vue JS framework.
- ❑ Design and deployment of a system, that identifies bots, proxy, VPN, and fraud users on the basis of IP quality, as well as the frequencies of page accessed.
- ❑ Jobs and Schedulers design to make the proper use of resources as well as keep a logs of system errors and exception using redis and memcached caches.
- ❑ Overall system development of (notik) and (Wollo), based on a CMS, using laravel, and many portions of jobs and schedules were designed using node JS for better resource utilization.
- ❑ Use of mysql, using tools as Mysql workbench, as well as writing optimized queries for better performance on the SPA. Eloquent was used in excessive amount for laravel, whereas a library called mongoose is used on Express JS.
- ❑ API integration of several third party apps, for fetching of offers, Surveys as well as other things associated with offer wall projects. Also designed some custom JS libraries, to link the project with AI models used in our project.
- ❑ Day to day update of project, regular fixes and deployment were done using CI/CD and VCS, on github.

Libraries: Authentication, Fraud Detection related, Spatie/Permissions and more.

Role as AI Engineer:

- ❑ Made a custom Model that is responsible for fetching data from more than 100 Ad networks, on a regular time interval, in background.
- ❑ Made a model to detect the fingerprint of device being used, with an accuracy of 95%, as compared to the JS library, with accuracy below 50%, using Neural Mesh library for PHP to generate Artificial Neural Networks. Bayesian Inference was designed and deployed for this Model.
- ❑ Text Generational Model for the offers fetched from the library, on the basis of trained data. This same model is used to write the offer flow, so that users can easily complete the offers or surveys with ease.
- ❑ API development using fast API middleware, to connect this model with Laravel and express to detect fraud or suspicious users.

Libraries: matplotlib, pandas, rest API and more.

Software Engineer - JS Developer

Techno Troop Inc. Pvt. Ltd - Kathmandu, NP
May 2015 to Present

Senior Software Developer

- ❑ Hybrid app concepts using Cordova and AngularJS
- ❑ Develop Projects based on agile software development processes, as well as general development practices such as version control, test driven development (TDD) and continuous integration.
- ❑ Experience interacting with JSON REST backend API's

- ❑ Comfortable with tools such as bower, grunt, yeoman and npm
- ❑ Use templating engines as html, pug and ejs. (Prefer pug though)
- ❑ Knowledge of NoSQL Mongo as well as, with using mongoose as an ORM
- ❑ Comfortable with unit testing and automated testing
- ❑ Knowledge of functional testing with jasmine and mocha
- ❑ Follow John papa's guidelines
- ❑ Comfortable using WebStorm as IDE

Software Engineer - Android Developer

- ❑ Requirement Analysis and new features development.
- ❑ Get json data from API and design it on the mobile end.
- ❑ Integrate different third-party APIs with our API architecture.
- ❑ Write different test cases for unit and functional testing.
- ❑ Material design application Guidelines and Google room book architecture.
- ❑ Experience publishing a high-quality Android application to the Google Play Store
- ❑ Experience with communication and messaging applications
- ❑ Experience with security software and solutions
- ❑ Ability to work in a dynamic, fast moving and growing environment
- ❑ Experience working with product management and UI/UX designers
- ❑ Experience working with customers and partners
- ❑ Solid background in software development, and design patterns
- ❑ Comfortable working with agile and scrum-based environment.
- ❑ Software Engineer - API Developer Using Laravel Framework
- ❑ Requirement Analysis and new features development.
- ❑ API Development Based on full MVC architecture and TDD based design

Asst. Lecturer

Cosmos college of Management and Technology,
March 2015 to Present

- ❑ Assigned with a role to teach Bachelor Students, subjects as Java, Object oriented design and modeling, using UML, Operating Systems, Digital Marketing, Probability and Queuing Theory, both practically and theoretically.
- ❑ Role to implement the MIS system in college as we as designed and developed cosmos college website, using Laravel.
- ❑ implemented Library management systems, using Java.
- ❑ Assisting final year students in their project, where I was particularly associated with API development, AI/ML models and mobile application libraries related projects.
- ❑ API Development (Used Core PHP, Node js and Laravel) for Mobile Applications.
- ❑ RDD and TDD based designs for the projects of students.
- ❑ Design and Develop Online Assignment, MIS and Examination routine system for college.
- ❑ Develop an android application for the college including students and teacher's section.
- ❑ Developed an e Attendance system for faculty members day to day attendance.

Intern/ Junior Android Developer

Emultitech Solutions PVT. LTD - Kathmandu, NP

April 2014 to August 2015

- Developed an Android application with a modern user interface and intuitive user experience
- Leveraged the Android SDK to create custom views and animations, enhancing the user experience
- Developed an Android mobile app that was downloaded over 1 million times in its first year on the Google Play Store, named Energyly, which was an award-winning application at that time.
- Developer two more apps in a team called iButler and iButler Beta.
- Learnt Java and xml.

Skills

- ANDROID, Flutter, Android Studio
- UI and Wireframes of Mobile
- USER Experience
- ANDROID SDK
- PHP, Laravel Vue
- Git, Docker, CI/CD
- Nodejs, Express Js, Alpine Js
- MySQL, MongoDB, Mongoose, Eloquent
- HTML5, CSS, JS, DOM, FullStack
- Python, restAPI, numpy, panda, matplotlib

Additional Information

SKILLS

- Familiar with both windows and Linux OS
- Ability to quickly learn new programming languages, paradigms and techniques
- Ability to produce clear, efficient and well documented code
- Good communication skill
- A good knowledge of networking protocols
- Strong knowledge of Android SDK, different versions of Android, and how to deal with different screen sizes
- Familiarity with RESTful APIs to connect Android applications to back-end services
- Strong knowledge of Android UI design principles, patterns, and best practices
- Experience with offline storage, threading, and performance tuning
- Ability to design applications around natural user interfaces, such as "touch"
- Familiarity with the use of additional sensors, such as gyroscopes and accelerometers
- Knowledge of the open-source Android ecosystem and the libraries available for common tasks
- Ability to understand business requirements and translate them into technical requirements
- Familiarity with cloud message APIs and push notifications

- A knack for benchmarking and optimization
- Understanding of Google's Android design principles and interface guidelines
- Proficient understanding of code versioning tools, such as Git

References:

Gabi Hermon, CEO, Notik and Wollo Offerwall

gabi@wollo.io

gabi@notik.me

+357-94-089333

Bibek Ropakheti

bibekropakheti@cosmoscollege.edu.np

+9779851223575