# Shilu Shrestha
## Senior Software Engineer

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## WORK EXPERIENCE

**Freelancer**                                                                 Dec 2023 - Present

Projects:

- aalownc (Feb - OnGoing): Freelanced to create a pilot project called aalownc which is a child chore and allowance management app. Technologies used: Google Authentication, Cloud Firestore, Cloud Functions.
- Luxury Collections Nepal (Dec - Jan): A luxury skincare brand promotional platform. Worked as a product owner and generate requirements for product discoveries.

**Career Break**                                                                 May 2023 - Nov 2023

- Volunteered for approximately 2 months as a Section Leader (Python) for the Code in Place program by Stanford University, while concurrently volunteering as a Yoga Teacher for the Online-YIC course by SVYASA and as a Dhamma Server for Vipassana meditation sessions, demonstrating a commitment to both technical education and holistic wellness initiatives.
- Stepped into a caregiving role at home for a duration of 5 months following the unexpected loss of my father, navigating through a period of familial upheaval and providing essential support at home.

**Fleetpanda**                                                          San Francisco, USA (Remote)

**Senior Software Engineer**                                                          Jun 2018 – Apr 2023

- Developed and launched Fleetpanda driver app on React Native for iOS and Android, applying modern UI/UX principles, resulting in a substantial increase in weekly deliveries, delivering up to 5 million gallons through the app.
- Integration of driver app with the hardware module to monitor and control liquid-related parameters, such as flow rate, volume and, totalizer.
- Reduced driver's operational time by 22% by building hardware integration with Liquid Control Registers which supports daily 40-50 deliveries.
- Utilized design patterns and principles such as Redux, Hooks, and Component Injection to ensure code robustness as well as developed native modules for iOS (Swift) and Android (Kotlin).
- Implemented an offline-first approach using Apollo Client and react-native-offline module.
- Conducted Test-Driven development with Jest and beta testing using TestFlight and Android Beta Channel Releases.
- Integrated RESTFul and GraphQL APIs; implemented CI/CD pipeline using Jenkins and Travis CI.
- Ensured proper performance and memory management by code optimization, efficient data fetching and caching strategies.

**Product Engineering Manager**                    Jan 2020 – Jun 2020, Feb 2022 – Nov 2022

- Led cross-functional teams of 18 engineers working remotely across different locations, overseeing product development, prototyping, and documentation.
- Directly involved as Product Owner for 2 major hardware integrations in the web app and as Project Manager for the 3 back office integrations.
- Implemented BI and analytical tools, introduced new methodologies for task management, and significantly reduced customer support calls.

**Chitooo (Amage)**                                                                 Kathmandu, Nepal

**Chief Technology Officer**                                                          Feb 2017 – Mar 2018

- Established company's technical vision and led all aspects of company's technological development.

- Supervised, evaluated and managed cross-functional team of various stacks: Android, iOS, Frontend (AngularJS) and Backend (NodeJS).
- Provide hands-on training for various MVVM, MVP design patterns, data structures and algorithms, and principles such as SOLID, DRY and KISS.

| Leapfrog Technology | Kathmandu, Nepal |
|---|---|
| Software Engineer (Android) | Apr 2015 – Aug 2016 |

- Designed and implemented complex Android projects utilizing Java and Kotlin, integrating UI/UX design principles and industry best practices.
- Implemented various MV design pattern including dependency injection (dagger, butterknife).
- Developed pilot game app using Unity for a customer.
- Experienced in effective memory management and threading using AsyncTask, Services and RXJava and persistence with Room Database.
- Led the android application development for various projects, including ThamelRemit and VayooEx.
- Incorporated third-party libraries and APIs such as Twilio Voice Call, Pusher, and Google Maps.

| Deerwalk Inc. | Kathmandu, Nepal |
|---|---|
| Software Engineer (Frontend) | Oct 2014 – Mar 2015 |

- Prepared custom modules and components which extend elements and modules of core AngularJS.
- Create and Maintain the web service for Health Insurance Management System under HIPAA using Java with Grails Frameworks and apache groovy syntax.
- Database management and experience working with Shell Scripting, SQL, & NoSQL.

| Blue Ocean Systems Pvt. Ltd. | Kathmandu, Nepal |
|---|---|
| Mobile Application Developer (Android) | Dec 2012 – Sept 2014 |

- Launched various mobile applications such as Tripcaptcha, and EventSquare in Android (Java).
- Developed a game called Yakru using Andengine and unity supporting regular and pro build versions.
- Integrated Firebase Cloud Messaging (FCM), RESTful API, and Google Maps into the application, enhancing UX and enabling real-time location tracking.

## EDUCATION

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| Executive Masters of Business Administration, Ace Institute of Management (Pokhara University)<br>*Aug 2017 – Jan 2020* | Kathmandu, Nepal |
| Bachelors of Engineer in Information Technology, Cosmos College of Management and Technology (Pokhara University)<br>*Aug 2008 – Oct 2012* | Kathmandu, Nepal |

## CERTIFICATIONS

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| [React Native](#)<br>*Skills: Cross Platform Mobile Application Development*<br>*Feb 2024* | Meta |
| [Introduction to Game Development](#)<br>*Skills: Video Game Development, Unity, CSharp*<br>*July 2016* | Coursera |