Shristi Shrestha

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PROFILE

Two years professional experience in the development of **web and mobile** applications focusing on user-centric business aspects by following **Scrum** software development (Agile) process with a specialization in **fast and highly productive frameworks such as Springboot (Kotlin and Java) and NextJS/ReactJS** as well as an understanding of **emerging Blockchain technology - Cardano and NFTs**. I am **looking** for **growth opportunities** in **product creation and management process**, requirement analysis, **code analysis and bug finding**, feedback and support management systems, **user-centric business applications**.

EDUCATION

- **Louisiana State University** — Baton Rouge, LA, USA
  PhD in Computer Science — *Expected graduation in 2027*
  Courses: Algorithm Analysis and Data Structures, Advanced Operating Systems, Natural Language Processing(NLP)

- **Tribhuwan University, Pulchowk Campus** — Lalitpur, Nepal
  Bachelor in Computer Engineering; GPA: 3.5 — *November 2015 - September 2019*
  Courses: Algorithm and Data Structures, Operating System, Object Oriented Programming (OOP), Software Engineering, Theory of Computation, Machine Learning (ML), Database Management System (DBMS)

SKILLS SUMMARY

- **Languages:** Kotlin, Java, Python (including NLP), C++, JavaScript, SQL, Bash, Dart
- **Frameworks:** SpringBoot, NextJS, ReactJS, Flutter
- **Tools:** Git, NPM, Figma, NLTK, Chrome Plugin
- **Cloud:** Firebase (Functions and NextJS)
- **Fluency:** Nepali, English, Hindi

EXPERIENCE

- **Teaching Assistant** — LSU
  Project Grader (Part-time) — *Since August 2022*
  - **Assess project milestones:** Assisted in the evaluation of classroom projects, including product ideas, Product Strategy Documents (PSD), and User Interface & User Experience (UI/UX) design documents.
  - **Guide Java Learning:** Guide beginner students with their hands-on learning of Java. Primarily focus on visualizing and providing insights into high-level understanding of problem statement and solution techniques.

- **Sireto Technology** — Hybrid
  Intern, Software Developer (Full-time) — *Nov 2019 - July 2022*
  - **RESTful Microservice - Artano NFT marketplace:** Designed and co-developed a set of RESTful microservices using Springboot framework (Kotlin/Java), enabling artists to share and trade their arts as Non-Fungible Tokens (NFTs) in Cardano space.
  - **Form Builder and Encrypted Data Collection:** Created a reusable set of class and functional React components for form builder, added customization of form fields such as target audience, enabled data validation and data encryption using symmetric key policy, and provided users with styling options for their forms.
  - **Identity Verification through Profile Sharing:** Co-developed an identity verification mobile app in Flutter that enables business owners to collaborate through a digital contract image and video data sharing process.
  - **Chrome Plugin for Password Manager:** Created a Chrome plugin that saves passwords as well as auto-fills selected forms through socket connection as a part of the user authentication process.
  - **Firefighter Resource Management:** Developed a web app for a firefighter tracking platform that enables all-in-one place record management for resources such as vehicles, crew members, and floor plans.
  - **Unit Testing:** Implemented unit and integration testing using spy, mock, and assertion techniques in JUnit (Java/Kotlin) module.

ACADEMIC PROJECTS

- **Speaker Identification - study on biometric authentication (Digital Signal Processing, Sinc Filter, 1D CNN, Noise reduction, silence removal, audio processing):** Mobile app development based on audio data processing for authenticating a controlled set of users by using a trained one dimensional CNN model. Tech: Python, Keras, Numpy, Flask, Android (July '19)
- **Master Thesis DBMS - record management web app (Large data upload and tabular display):** Admin-centered web application that enables uploading of hundreds of Master thesis project ideas as well as viewing of such records using different filters like subjects, scopes, supervisor, and groups. Tech: PHP, Laravel, JS (June '18)
- **Travel location finder - text-based search for potential traveling sites (Blogging and NLP-based text search):** Blogging web app for travel lovers, used NLTK for keywords tokenization, implemented Google Maps API to render potential tour sites around user's location. Tech: JS, PHP, Laravel, GoogleMaps API (June '17)