Shristi Shrestha

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PROFILE

Two years of professional experience in the engineering of **web and mobile** applications, following the **Scrum** based software development (Agile) process, and with specializations in **fast and highly productive frameworks and libraries** such as Springboot (microservice-oriented backend) and Next.js/React (frontend). Skilled in building and deploying full-fledged web applications in seamless **Serverless Architecture** using AWS EC2 and Firebase. As a researcher, I study **requirement engineering processes** and their impact on software evolution. **Looking** for **growth opportunities** in **product creation and management process**, **requirement analysis**, **code analysis and bug finding**, feedback and support management systems, **user-driven business applications**.

EDUCATION

- **Louisiana State University**   Baton Rouge, LA, USA
  Ph.D. in Computer Science; GPA: 3.75   *Expected graduation in 2027*
  Courses: Algorithm Analysis and Data Structures, Advanced Operating Systems, Natural Language Processing(NLP), Distributed System Framework (Hadoop)

- **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, JavaScript, SQL, C/C++, Bash, Dart
- **Frameworks**:   SpringBoot, Next.js, React (library), Flutter (SDK)
- **Tools**:   Git, Figma, NLP(NLTK, Spacy), Web Plugin (Chrome)
- **Cloud**:   Firebase (Auth, Firestore, Functions, Next), AWS EC2
- **Fluency**:   Nepali, English, Hindi

EXPERIENCE

- **Teaching Assistant**   LSU
  Project Grader (Part-time)   *Since August 2022*
  - **Lab Assistant**: Guide undergraduate students in their hands-on learning of Java. Assist in understanding and formulating solutions to the problems of their lab assignments.

- **Sireto Technology**   Hybrid
  Software Developer (Full-time)   *Nov 2019 - July 2022*
  - **RESTful Microservices**: Contributed to the development and testing of an interconnected set of microservices using the SpringBoot framework in Kotlin. The integrated microservices bridged the gap between Cardano Blockchain and the marketplace application (web) through RESTful API services. The product enabled artists to trade their digital arts as Non-Fungible Tokens (NFTs) in the Cardano space.
  - **Frontend Development**: Co-developed a reusable set of functional components for a form builder platform using React. At the micro-level, the components allowed customization of the generated forms, such as setting the target audience, data encryption, and styling options for the form fields.
  - **Identity Verification**: As an intern, co-developed an identity verification feature in a Flutter-based mobile application that involved sharing and validating video profiles among potential business partners.
  - **Other Projects**: Co-developed a set of micro features in existing projects that incorporated user authentication, password management, and resource information management. Also, experience in debugging and testing existing Java projects using JUnit libraries.

ACADEMIC PROJECTS

- **Schedule Management & Humor-based Social Media Platform - MVP for new ideas**: Transformed new ideas into Minimal Viable Products within 2-3 weeks (group effort) using highly productive frameworks like SpringBoot and Next.js. The schedule manager offered a centralized and easy platform to manage their tutoring schedules with their students. Also, created (individual) a community space for comedians to share and rate each other's jokes (a new form of social media for people with a similar sense of humor. (Jan & Sept '23))
- **Speaker Identification - study on biometric-based authentication system (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. (July '19)
- **Master Thesis DBMS - web-based app for university master-thesis records (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)