

# PUKAR SUBEDI

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## SOFTWARE ENGINEER

Skilled software engineer with almost a year of professional experience developing full-stack web applications using Lit-Element and Micronaut. Proficient in Spring, MERN, and MEAN stack with over a year of intensive academic and project-based experience. Adept at analyzing, troubleshooting, developing, and testing software applications to ensure timely delivery of quality work in high-performance, secure environments. Collaborates effectively with teams to achieve objectives.

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Agile • Web APIs Development • Java • JavaScript  
MERN Stack • MEAN Stack • Front End/Back End Development  
Database Development & Integration • PostgreSQL • MongoDB • Data Structures  
Object Oriented Programming • Dependency Injection • Algorithms

**Languages:** Java, TypeScript, Kotlin

**Web:** HTML5, CSS3, JavaScript, Bootstrap, Web Components, Vaadin Components, Material UI, Chakra UI, jQuery, Junit, Ajax, Tailwind CSS

**Web Services:** RESTFUL, JSON, XML, AWS, GCP, Retrofit, Kubernetes

**Web & Application Servers:** Apache/Tomcat, Nginx, Node JS

**Frameworks:** Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), React, Redux, LitElement, Angular, RxJs, Android, Hibernate

**Databases:** MySQL, PostgreSQL, MongoDB, Firebase, Elastic Search

**Design Patterns:** MVC, Singleton, Prototype, Module, Strategy, Proxy, Observer, Chain of Responsibility, Façade, Factory, Builder, Decorator, Adapter

**SDLC:** Agile/Scrum, TDD, BDD, Pair Programming, Waterfall

**IDE:** IntelliJ, Eclipse, Vs Code, Android studio

**Tools:** Git and GitHub, Jira, Postman, MongoDB, Gradle, ActiveMQ, Jenkins, Maven, Xampp, MySQL Workbench, PSQL, Docker, Logstash, Kibana, OAuth 2.0, NPM, JWT, Bcrypt JS, StarUML, Liquibase, Cucumber JS, JEST, JUNIT, Espresso, Mocha and Chai

**Platforms:** Windows, Linux, Android

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## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

**LEAPFROG TECHNOLOGIES INC., Kathmandu, Bagmati, Nepal • 2022**

Global IT services provider specializing in digital products – implementing AI, data, and cloud technologies.

**Associate Software Engineer (January 2022 – August 2022)**

Provided front-end and backend applications development.

- Developed re-usable frontend web components using Lit Element and Vaadin Components.
- Developed backend API for the application using Micronaut.
- Created migration files for backend application PostgreSQL database.
- Provided code analysis and maintenance, ensuring reusability.
- Followed Test-Driven Development (TDD) and Agile methodologies to enhance software quality.
- Demonstrated system functionality to clients.

**Technologies Used:** JavaScript, Java, Lit Element, Micronaut, HTML, CSS, Vaadin Components, PSQL, Git / GitHub, Windows, Linux

## LEAPFROG TECHNOLOGIES, INC., Kathmandu, Bagmati, Nepal • Continued...

### Software Engineer Intern (December 2021 – January 2022)

Structured and created responsive web page layouts using core HTML5 and CSS3 and developed games using core JavaScript.

- Contributed to pet projects, developing games using vanilla JS.
- Developed responsive web pages based on prototypes, and applications based on core concepts of JavaScript.
- Contributed to the delivery of projects within strict timeframes.
- Learned system design prototyping concepts, responsive website development (HTML5 and CSS3), animation creation (JS), and JS game development.
- Implemented best practices and coding standards to ensure the quality and maintainability of code.

**Technologies Used:** JavaScript, HTML, CSS, Vanilla JS, Git / GitHub, Windows, Linux

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## ACADEMIC PROJECTS

### Maharishi International University

- **Check-in System (Badge and Membership):** Created an automated IOT system, enabling members to swipe badges to check-in and check-out from certain locations with existing plans. Implemented APIs for the backend system. Applied Agile methodology where TDD and BDD testing were performed. Used technologies such as Spring Boot, Spring Security, Hibernate, and MS SQL as well as tools such as Git and GitHub for version control and ActiveMQ to perform asynchronous communication between applications.
- **Real Estate (Property Rentals):** Created a real estate web application using MEAN stack. Integrated Leaflet map for location search, and EJ2 calendar to save schedules of property visits. Configured modules to enable lazy loading for the components. Utilized TypeScript for programming language, Angular for frontend, and MongoDB as database along with HTML5, Tailwind CSS, RxJS, NodeJS, Express, NPM, REST, VS Code, Postman, Git, and GitHub.

### Softwarica College Of IT And E-commerce

- **E-Commerce (Yeti Originals):** Created scalable, multi-vendor e-commerce system, enabling purchases, product catalog browsing, order history management and online checkout with persistent cart and online payment services. Implemented web services provided by banking systems and online wallet systems for transactions and purchases. Developed using Agile as SLDC, React as a front-end library, and MySQL as database along with frameworks Spring, Spring Security, and Hibernate.
  - **Review System (Good Regime):** Created a scalable political review system, enabling users to search, post, comments and rate the feed regarding any political parties or leaders globally. Collaborated effectively in teams utilizing agile methodology. Developed using React as a front-end library, Nodejs for the backend, Mongo DB as NoSQL database, Git and GitHub as a VCS tool, and JWT token for security. Engaged as a full stack developer to develop and integrate system.
  - **Public Vehicle Tracking (Mero Sawari):** Created Android applications using Kotlin as a programming language. Used GPS to transmit and receive live location of vehicles. Used firebase real-time database to store the live location. Integrated Google Maps to track real-time location of vehicle retrieved from firebase.
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## EDUCATION & CERTIFICATIONS

### Master of Science in Computer Science

*(In progress via distance education; expected completion April 2025)*

Maharishi International University – Fairfield, Iowa

**Key Courses:** Fundamental Programming Practices, Modern Programming Practices, Web Programming, Algorithms, Web Application Architecture, Enterprise Architecture

### Bachelor of Science in Computing (2021)

Softwarica College of IT & E-Commerce (Coventry University UK) / Kathmandu, Bagmati, Nepal

Artificial Intelligence Analyst – Mastery Award, IBM (2019)