

# BISHO SILWAL

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## FULLSTACK RUBY ON RAILS DEVELOPER

Full-stack developer with over 5 years of experience specializing in Ruby on Rails. Demonstrated success in developing and maintaining robust web applications with a strong focus on code quality and performance. Aims to harness technology to craft innovative and impactful software solutions, enhance user experiences, and drive business success. Committed to addressing real-world challenges and opportunities while fostering continuous improvement and adaptability in dynamic environments. Proficient and have a strong grip on Ruby on Rails, MySQL, PostgreSQL, ReactJS, Angular, Node, MongoDB, Tailwind CSS, Elasticsearch, Redis

System Architecture • SDLC • Object Oriented Programming (OOP) • SOLID • CI/CD • SaaS  
MVP development • Single Page Applications • Database Design • Docker Containerization • Cloud

**Languages:** Ruby, Javascript, Java

**Web:** HTML, CSS3, SAAS, Tailwindcss, ReactJS, StimulusJS, Typescript, Redux, Gatsby

**Web Services:** REST, GraphQL, XML, JSON, HTTP/HTTPS

**Web/App Servers:** Puma, Apache, Nginx, Tomcat, Node.js, Postfix MTA

**Frameworks:** Ruby on Rails, Sinatra, Grape, Java, Spring Boot, Angular JS, Express JS, RSpec, Capybara

**Databases:** MySQL, PostgreSQL, MongoDB, Redis, GraphQL

**Design Patterns:** Singleton, Builder, Adapter, Factory, Proxy, Observer

**SDLC:** Agile, Scrum, Waterfall

**Tools:** Bundler, npm, maven, git, node, Selenium, DigitalOcean, AWS ECS, GitHub copilot, Elasticsearch, Jira,

**Platforms:** Linux, MacOS, Windows

## 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).

### SSL Corp. Houston, TX, USA • 08/2022 – 12/2023

Provider of digital trust services, digital identity, certificates, signatures, and brand protection solutions.

#### Ruby on Rails Developer (Remote)

Feature development, bug fixes, testing, and code quality enhancement.

- Implemented EVSA and EVRF form signing and admin approval steps for EV certificates only in the middle of the checkout process, enabling buying EV certificates more digital, and automated, and improving the process.
- Developed a new 2FA SMS Authentication system to access the eSigner cloud signing credentials, thus boosting security for crucial user data and information.
- Created internal eToken API provisioning feature using grape gem and JWT, allowing uploading of the data from the client's digital device without needing to approve it and making the process streamlined and secure.
- Implemented malware scanning with eSigner for OV and EV Code Signing certificate, allowing users to verify malicious documents before uploading and sending.
- Created Cloud Signature Consortium API services and allowed users to see the certificate's log at different times improving the trust between users and the platform.
- Optimized queries using performance-enhancing techniques like multiple table joining and fewer query requests thus improving application performance by 10%.
- Focused on code quality and security measures consistently, enhancing overall code reliability and security by using SOLID principles and writing more test cases.

**Technologies Used:** Ruby, JavaScript, MySQL, Jira, Redis, Background Job, Jumio API, Twilio API

### DANPHE SOFTWARE LABS, Kathmandu, Nepal • 06/2019 – 02/2021

IT consultancy that outsources IT professionals as well as builds software products.

#### Ruby on Rails Developer

Full-time full-stack developer to build software components, write test cases, fix security vulnerabilities, review code.

- Implemented HSTS headers, reCAPTCHA, and input validation which improved security measurements.

- Wrote unit, feature, and integration test cases using RSpec, Capybara, and Selenium, ensuring robust testing.
- Integrated the Recognize app's pages with SharePoint and MS Teams, enhancing team collaboration and making the app accessible inside those platforms.
- Implemented SSO with OneLogin, streamlining user authentication across multiple platforms thus making the application easier to use.
- Added filtering and infinite scrolling on the user's home page where streams of recognition were rendered by using the infinite-scroll js library resulting in a better user experience.
- Contributed to the notifications module and added Twilio SMS notifications for a more direct and better reachable way.

**Technologies Used:** *Ruby, React, Elasticsearch, MySQL, JavaScript, Twilio, ReCAPTCHA, SSO, GitHub Actions*

#### **CODYSEY WEB NEPAL, Kathmandu, Nepal • 07/2018 – 02/2019**

IT consultancy that outsources IT professionals as well as builds software products.

##### **Software Engineer**

Built components in leavelogic using Ruby on Rails as well as ReactJS.

- Developed cloning of company settings and configuration to the child company feature for Leavelogic, thus supporting adding a new child company with default parent's company settings.
- Worked on the Email service which sends the billing details with invoice pdf to the users using background jobs and email MTA making the billing process automated and easy to access the invoice.
- Converted large-sized web pages to React components and loaded data asynchronously which significantly improved the page loading time and user experience.
- Wrote features as well as integration test cases forming a strong code quality.

**Technologies Used:** *Ruby, React, MySQL, PostgreSQL, Git, Elasticsearch, Redis*

### **FREELANCE EXPERIENCE**

#### **HONESTPOLICY, Dallas, TX, USA • 01/2022 – 07/2022**

Insurance comparison and reviews.

##### **Front-End React Developer (Remote)**

Built UI/UX using React, HTML, CSS, Tailwind CSS

- Created reusable and efficient React components and integrated them into pages with the help of a router.
- Converted design mockups into functional UI elements in ReactJS and improved user experiences with UI/UX.
- Connected front-end components with backend services via GraphQL API call.
- Worked with design and development teams for cohesive development improving team communication.
- Managed the global state of the application using Redux thus improving data access and updating it.

**Technologies Used:** *ReactJS, CSS, SCSS, Redux, Tailwind CSS, HTML*

#### **IEXPERIENCE NEPAL, Kathmandu, Nepal • 03/2021 – 12/2021**

Search, participate, and experience various activities inside Nepal.

##### **Co-Founder and Developer**

Built web Application and perform digital marketing

- Developed the entire website for iexpericenepal.com using Ruby on Rails and deployed it on DigitalOcean, creating a scalable and high-quality platform.
- Implemented key features like user authentication and booking systems, enhancing functionality and user experience.
- Optimized database performance and refined features based on stakeholder requirements, improving overall performance and user satisfaction through UI.

**Technologies Used:** *Ruby, PostgreSQL, SCSS, Redis, Mail*

### **INTERNSHIP EXPERIENCE**

#### **ENLIV TECHNOLOGY, Kathmandu, Nepal • 12/2017 – 07/2018**

AI-powered, user-centric care delivery platform.

##### **Junior Software Engineer**

Built Web Application

- Developed and maintained web-based internal accounting and CRM applications as part of an internal software development team, enhancing business operations and internal processes.

- Created a website for TedxJawalakhel using various web technologies, supporting event promotion and information dissemination.

**Technologies Used:** Ruby, ReactJS, MySQL, PostgreSQL, Git

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## RELEVANT PROJECT

**Mailet (2020)** I developed a comprehensive temporary email address generator using Rails with Action Mailbox and Postfix MTA, providing full email functionalities and robust email management capabilities. Additionally, I created Mailet, a temporary email service hosted on DigitalOcean with Puma and Nginx, ensuring scalable and reliable email services. To enhance real-time user interactions, I implemented Stimulus Reflex for HTML over WebSocket and built a custom calendar for multi-user event booking. Utilized Ruby, React, PostgreSQL, Postfix MTA, Background Jobs

<https://github.com/bishosilwal/mailet>

## EDUCATION

### **Master of Science in Computer science**

*(started in 02/2024 and still in progress via distance education; expected completion 10/2026)*

Maharishi International University, Fairfield, Iowa

*Key Courses: DBMS, Enterprise Architecture, Web Application Programming, Modern Web Application*

### **Bachelor of Engineering in Information Technology**

Nepal College of information Technology, Kathmandu, Nepal