

SUJAN SHRESTHA

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Professional Summary

Experienced Software Engineer, Team Lead, and Solution Architect with Over 10 years of Expertise in Application Development, Web Development, Data Analysis, Query Performance Optimization, and Rigorous Testing, including Unit Testing, User Acceptance Testing, and Integration Testing.

Dedicated Team Player with a Can-Do Attitude, Exceptional Time Management Skills, and a Keen Focus on User Satisfaction. Passionate about Taking on Challenges in the Field of Computer Engineering and Leveraging Years of Experience to Efficiently Deliver High-Quality, Complex Projects.

Skills

Programming Languages:

- Python
- Java (Core)
- C / C++

Databases:

- Oracle PL/SQL
- MySQL
- PostgreSQL
- Redis

API:

- SOAP, REST, GraphQL

Operating System:

- MS Windows, macOS, Linux

Testing:

- Unit Testing (Jest, Mocha)
- Integration Testing

Web Development Languages:

- HTML/HTML5
- CSS, SCSS, Sass
- JavaScript, jQuery, Ajax
- ReactJS, Redux
- Vue.js (Quasar Framework, Vuetify)
- Typescript
- Node.js (Express/ NestJS/ AdonisJS)
- Django
- PHP, Ruby on Rails
- CMS: WordPress

Version Control:

- SVN, GIT

Others:

- AWS (EC2, S3, CloudWatch, RDS, Lambda, EBS, EKS, ECS)
- Docker
- Kubernetes
- Microservice Architecture
- gRPC, Nats
- Agile / Scrum Methodology
- Query Performance Optimization
- Debugging: Chrome Inspector, Vue.js Devtools, React/Redux Developer Tool

Industry Standard Tools

- Oracle Data Integrator
- JIRA / Confluence
- Microsoft Excel, Microsoft Word
- SQL Tools / SQL Developer
- Postman
- Visual Studio Code
- XCode

Work History

Tech Lead, 06/2023 to current

LenDenClub Techserve Pvt. Ltd. – Mumbai, India

Roles:

- Lead and mentor a team of developers, providing technical guidance and support.
- Review code submitted by team members to ensure adherence to coding standards and best practices.
- Collaborate with architects and senior developers to design the overall application architecture.
- Manage the scalability, maintainability, and compliance with best practices in application design.
- Ensure that project documentation is up-to-date and comprehensive.
- Encourage the team to document their code, processes, and decisions effectively.
- Analyze server performance metrics, identify bottlenecks, and recommend optimizations to improve overall system performance.
- Oversee the peripheral systems of KYC management, payment management, NACH management, UPI management, and bank statement management.
- Implement caching strategies (e.g., Redis) to reduce database and application server load.
- Set up and configure AWS Elastic Beanstalk environments for different application tiers (e.g., development, staging, production).
- Design and implement auto-scaling policies for EC2 instances to dynamically adjust capacity based on demand.
- Configure and manage load balancers to evenly distribute incoming traffic across multiple EC2 instances.
- Proactively address and resolve production bugs, ensuring system stability and user satisfaction.
- Containerize applications using Docker to ensure consistency across different environments.
- Plan and execute the migration of applications from uWSGI to Gunicorn or Uvicorn, considering compatibility and performance implications.
- Design a microservice responsible for managing role-based access control across the application.
- Lead application deployments, ensuring smooth and efficient releases.
- Monitor server performance, conduct regular database size checks, and optimize database operations.
- Implement space size management strategies to ensure efficient storage utilization.

Principal Software Engineer, 08/2016 to 05/2023
Cotiviti Nepal (Formerly Known as Verscend Technologies) – Kathmandu

Roles:

- Effectively manage day-to-day tasks / activities in coordination with a team of developers to effectively meet the deliverables and schedule of a data solution component within a larger application project.
- Follow ETL process in day-to-day job to load raw data from data warehouse to GUI.
- Use ETL Tool - Oracle Data Integrator (ODI) tool to build, manage and maintain data integration processes in business intelligence systems.
- Provide Data solution debugging support as a part of Defect Fix Team.
- Resolving defects during QA testing, pre-production, production and post-release patches.
- Develop optimized queries, packages, stored procedures, triggers.
- Developed Applications for Impact Analysis Report and Defect Dashboard applications using ReactJS, NodeJS, Typescript.
- Designed best practices to support continuous process automation for data ingestion and data pipeline workflows.
- Ensure excellent code quality through code reviews, periodic audits, and implementation of best practices on related projects.
- Developed Integration Testing PLSQL package to tests all the test cases during ETL work.
- Transfer company's domain knowledge to new members of ETL team along with necessary training of PLSQL.
- Developed Visualization application (using ReactJS/NodeJS and ChartJS) of in-house ICE application.
- Tech Stacks Used: Oracle, Python, Shell Scripting, ReactJS, Node.js, Typescript, AWS

Freelance developer, 08/2017 to current
Upwork (Top rated badge)

Roles:

- Worked mainly as a Full-stack JavaScript developer.
- Developed full-stack web applications which processed, analyzed, and rendered data visually.
- Team Lead responsible for building awesome and rich User Interfacing applications - prioritizing user experience and architect the whole backend system.
- RESTful API design and development.
- GraphQL API design and development.
- Microservice architecture implementation with NestJS.
- Managed, optimized, and updated databases as necessary.
- Document all the APIs in swagger.
- Liaised with back-end developers, front end developers, quality assurance testers, and client as needed.
- Developed Global Operating System for Agtech which is available for all the farmers across the world.
- Defining and setting development, test, release, update, and support processes for DevOps operation.
- Integrating google maps features like polygon creation for making geofences around the farms, overlaying heatmap image generated from satellite over the geolocation of the user's farm, e.t.c.
- Tech tacks Used: ReactJS, VueJS, Node.js, Express, Microservice architecture, NestJS, Typescript, AWS, MySQL, Rest API, GraphQL

Senior Software Engineer (Freelance work), 02/2021 to 03/2023
Outpace SEO – Kathmandu

Roles:

- Worked as a Lead full stack developer, where I was responsible to develop websites, web and mobile applications and SEO optimization related works.
- Responsible for developing and maintaining an in-house SEO application (web, iOS and android), initially developed for the purpose of generating the client's report. Later added many other features for SEO purposes like keyword analysis, No-Index check, SSL validity Check, website crawling and Page speed insights data.
- Custom WordPress themes and plugins development.
- Developing front end website architecture.
- Designing and developing APIs.
- Solve technical problems of high scope and complexity.
- Overseeing and guiding the analyzing, writing, building, and deployment of software
- Document all the APIs in swagger.
- Unit testing with Jest and Mocha.
- Prepare automated scripts to help reduce the manual time.
- Optimizing websites for SEO, usability, speed and accessibility.
- Improving websites core web vitals and website page speeds.
- Fixing technical issues of the websites pointed out by SERanking tool.
- Managed time-sensitive updates, including content changes and database upgrades.
- Strive for continuous improvement and build continuous integration, continuous development, and constant deployment pipeline.
- Working with debugging tools like Firebug, Chrome inspector, VueJS devtool, Redux dev tool e.t.c.
- Stacks Used: WordPress, PHP, Javascript, JQuery, Vue.js, Quasar framework, ReactJS, Node.js, NestJS, Typescript, MySQL, GraphQL, BigCommerce, AWS

Senior Engineering Consultant, 08/2019 to 01/2021
Lapsii Online Group Pvt. Ltd – Kathmandu

Roles:

- Frontend Team Lead responsible for building awesome and rich User Interfacing applications, prioritizing user experience.
- Responsible for creation of all coded Front-end deliverables
- Architect efficient and reusable front-end components that drive complex web applications.
- Active role in all features and design decisions, defining front-end architecture.
- Complete frontend work of an E-commerce application with different application roles - Customer, Super Admin, Seller, Seller Admin, Delivery applications.
- Integration of restaurant management system (Restaurant Admin/ Waiter) to the application.
- Optimize code to improve scalability, reliability, security and performance of the web applications.
- User Acceptance Testing and Unit Testing.
- Database Query optimizations.
- Payment gateway integration: Esewa, ConnectIPS, Khalti and Stripe.
- Interacting with JSON based APIs in the frontend.
- RESTful API design and development.
- Provide technical leadership to interns and trainees through coaching and proper guidance, leading team development efforts towards successful project delivery.
- SEO solution for single page applications.
- IOS and android application development with Quasar framework.
- Stacks Used: Vue.js, Quasar framework, Node.js (AdonisJS), MySQL.

System Developer, 07/2015 to 08/2016

Classic Tech Pvt. Ltd – Kathmandu

Roles:

- Developing new applications according to Company's need and integrating it into Company's In-House Network Portal System.
- Maintain existing application and add new features.
- Developed Customer Relationship Management and integrated into Company's Network Portal System.
- Solely Integrated an existing globally used OTRS system (Open-Source Ticket Request System) into Company's Network Portal System.
- Build efficient, testable, and reusable PHP modules.
- Solve complex performance problems and architectural challenges.
- Troubleshoot, test and maintain the core product software and databases to ensure strong optimization and functionality.
- Maintain documentation of every change done in the Network Portal System.
- Stacks Used: PHP (CI framework), HTML, CSS, JavaScript, jQuery, SOAP/REST API, MySQL

Web Developer, 01/2013 to 07/2015

Neparica Technology Pvt. Ltd – Kathmandu

Roles:

- Designing / Developing / Modifying websites according to Client's requirements.
- Custom WordPress themes and plugins development.
- Designing and building the website front-end.
- Designing and managing the website back-end including database and server integration.
- Ensuring high-performance and availability and managing all technical aspects of the CMS.
- Conducting website performance tests.
- Regular monitoring of the websites and bug fixes in production.
- Optimizing websites based on Google page speed insights and GTmetrix reports.
- Maintaining and Managing In-house Web Applications.
- Register Domains and manage web hosting.

Education

Bachelor of Science: Bachelor's in computer engineering - 2015

Kathmandu Engineering College - Kathmandu, Central Development Region, Nepal