



Sankalp Bastakoti

Software Engineer

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65 Sitalbasti, Pokhara, Nepal

Work Experience

Skeinsoft Pvt Ltd - Senior Software Engineer

Pokhara, Nepal (June 2020 - Current)

- Fully responsible for the design, set-up and maintenance of full stack custom software implementation for businesses requirements
- Setup websites, supported digital media campaigns, performed database migrations & created automation software and discord bots

KM UnoTag Pvt. Ltd. / Lead Software Engineer

Bengaluru, India (Jun 2018 - Feb 2020)

- Worked on administrative web interface and coordinated with a mobile app developer to deploy an Android/iOS based loyalty system
- Created image processing algorithms to generate printable QR codes on a large scale & explored QR code enabled production/warehousing systems and custom image processing 2D codes for tamper proofing product seals
- Built a chatbot for automated replies across multiple social media platforms (Facebook, Whatsapp)

Freelance Paid Engagements

Bengaluru, India (2016 - 2018)

- Jiffy RPA - Freelance Software Consultant**
LDAP Integration for proprietary code
- Vision Glass Interiors / Freelance Social Media Manager**
Created website and constructed social media inputs using layer photo Editing, tag handling and content writing
- Tandoor House / Manager**
Created digital & printable marketable assets

Projects

Commercial Project Highlights:

- Order Tracking Management Systems for distributors including staff management, orders, inventory & agent application
- Data management software for a job consultancy client. Includes data entry, filtering & authentication system
- Payment record keeping System to keep track of accounting for a private fund
- Discrete discord message recorder using browser automation to bypass discord bot protection
- Live gambling site data aggregation and transactions tracking for data visualisation & analysis
- Automated Tennis court booking
- Mallsquare - App to catalogue products in malls and deliver targeted Ads using location context

Academic Project Highlights:

- Air Traffic Control Event Logging System using blockchain
- 2D Tag Analysis using computer vision

Software Tools Proficiency

- Web Development: HTML/CSS, JS, MVC, REST
- Software Development: Python (numpy, Django, Flask, appJar), Java (Android, JSP Servlets), Database (MySQL, NoSQL, Administration)
- System Administration: Shell Scripting, cron, nGinx, Apache, Port handling
- Automation & Web Scraping: Selenium, bs4, browser profiles
- Machine Learning & Data Analysis: Neural Network Architecture (GAN), Regression Analysis, Natural Language processing (NLP)
- IOT: Micro-controllers, ESP 32, Arduino, Raspberry PI, Sensors, Firmware programming
- Computer Vision: continuous data, using AI models, mathematical optimization, masking and spectrum analysis). Data visualisation
- Cyber Security: FreeIPA, OWASP, Security Auditing
- Distributed Computing & High Traffic Architecture: Message Queues, Load Balancers, Whisper Protocol, and provably fair algorithms

Education

Bachelors in Computer Science & Engineering
Visvesvaraya Technological University
India (2018)

- Module Highlights:** Software Engineering, Finite Automata, Distributed Computing & Robotics

ISC Grade 12 Exam: 92.6%

Skills & Hobbies

- Languages:** Fluent English, Nepali & Hindi. Conversational in Japanese
- Hobbies:** Chess, Music, Philosophy
- Achievements:** Previous Certified Ethical Hacker, Speaker on CyberSecurity Events, 2015 Semifinalist for Eureka! Entrepreneurship IIT Bombay Competition