SABAL KC

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Summary

Graduate student with a strong foundation in full-stack software development with over 3 years of experience and proficiency in Node.JS, Go and React. Proven track record of exploring, learning, and mastering new tools and technologies to drive impactful results in dynamic environments.

Experience

Software Engineer   May 2021 – July 2024
Dapi Ltd.   Remote (US based company)
- Developed and maintained core back-end services for an open-banking system built in Go, GoKit, and Fiber with MongoDB.
- Interacted with NATS for service communication and utilized protocol buffers and JSON for data serialization.
- Created and scaled an in-house browser as a service system using NodeJS, Go, and Kubernetes.
- Created web scraping and automation scripts with Puppeteer, TypeScript, and Node.js for open banking integration in the UAE and US to provide support for over 30 banks.
- Maintained and debugged integrations, achieving over 95% success rate by fixing production bugs, optimizing performance, and enhancing code quality.
- Managed Dapi client libraries in Python, Java, and Go, and contributed to the React-based client dashboard.
- Revamped comprehensive documentation for internal development processes and client-facing API to reduce onboarding time for clients and developers by 33%.

Full-Stack Developer   December 2020 – April 2021
Okhati Solutions   Kathmandu, Nepal
- Collaborated in the development and maintenance of an EMR software used by clinics, labs and hospitals, leveraging React, Redux, Node.js with Express, Objection.js, and PostgreSQL.
- Developed and enhanced features such as stock management, billing, reporting modules and email/SMS campaigns in React and Node.js, enhancing functionality and resulting in a 25% increase in user engagement through notifications.
- Led the integration work with the IMU of Nepal Ministry of Health and Population for COVID-19 tracking.

Technical Skills

Backend: Go (Golang), NodeJS, Express, Flask, Microservices
Database: MongoDB, SQL (MySQL, Postgres)
Frontend: HTML, CSS, Javascript, Typescript, React, NextJS, Redux, Python
Web scraping, automation and testing: Puppeteer, Cypress
Container tools: Docker, Kubernetes
Other languages and technologies: Familiarity with C, C++, Java, Unity (C#), AI/Machine Learning

Education

University of Houston   August 2024 – May 2026
Master of Science (M.S.) in Computer Science   Houston, Texas
Coursework: Database Systems, Cloud Computing, Artificial Intelligence

Pulchowk Campus, IOE, Tribhuvan University   November 2016 – April 2021
Bachelors (B.E.) in Computer Engineering   Lalitpur, Nepal
Coursework: Software engineering, Database Management System, Operating system, Object-oriented programming, Data structures and algorithms, Artificial intelligence, Mathematics

Projects

Posture correction for gym exercises using human pose estimation, AI, Machine Learning, Python, Flask
- Implemented a rule-based system for exercises (bicep curl, push-up, front raise) for real-time correctness detection and repetition counter from a webcam video source.
- Built an interactive real-time posture correction tool utilizing AI and machine learning; led the pose analysis and backend integration parts.

Path Finding Visualizer, Algorithms, C#, Unity
- Built a visualization tool for major path-finding algorithms: A*, Breadth-first search, Depth-first search, Dijkstra's algorithm and Greedy best-first search.

Exam Package management system, React, NodeJS, Express, MySQL
- Designed a system to manage exam packages, and contributed to database and backend design and API integration.

Certifications

Coursera Certificate : Programming with Google Go Specialization - 3 courses specialization
edX Certificate : Microservices, Serverless, OpenShift