Sagar Chapagain

📝 Backend-Heavy Full stack Engineer | Cloud Solutions Engineer | Typescript | PHP | Python
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- Experienced Software Engineer with over 8 years of professional expertise in web development, specializing in **Typescript (Javascript), Python and PHP**.
- Scaled a startup team from **2 to 12**, delivering **12+ projects** in eCommerce, LMS, fintech, and aligning tech with business goals.
- Migrated a e-learning platform transformation of a legacy system into a scalable architecture using **Next.js** and **Nest.js**, rolled out incrementally with zero downtime, boosting reliability **from 80% to 98%**.
- Implemented **CI/CD pipelines** (GitLab/GitHub) and AWS Lambda, cutting deployment time by 1.5 days per sprint and reducing failures and cost by 50%.
- Integrated and deployed **AI powered video agents and chatbots**
- Strong ability to quickly learn and integrate new technologies into high-impact, business-critical solutions.

Technical Skills

- **Programming Languages:** TypeScript/Javascript, Python, PHP
- **Frameworks & Libraries:** Nest.js, Next.js, React.js, Laravel, Symfony, Django
- **Databases**: MySQL, PostgreSQL, MongoDB, Elasticsearch
- **Cloud & Tools**: AWS (EC2, S3, CloudFront, Lambda), Docker, Git, CI/CD Pipelines, Terraform, Playwright
- **Principles**: SOLID, DRY, TDD, Design Patterns

Work Experience

Dec 2024 - Present   *Contract Full stack Engineer*   **Outback Yak, Melbourne**

- Built an application integrated with AI-powered video agents to help medical students practice clinical consultations and chatbots which improved student learning by more than 30%
- Engineered and deployed a scalable LMS, integrating Clerk authentication, Stripe for payments, and a custom payload CMS for seamless content management.
- Optimized cloud infrastructure on AWS, cutting downtime by 40% and improving system reliability

Dec 2018 - Aug 2024   *Lead Software Engineer*   **Idata Solutions Pvt. Ltd., Nepal**

- Led architecture, development, and delivery of 10+ projects, aligning technical solutions with business needs while mentoring and expanding the team from 2 to 12 members.
- Implemented CI/CD pipelines and AWS Lambda, reducing deployment time by 1.5 days per sprint, cutting server costs, and decreasing deployment failures by 50%.

🌐 https://sagarchapagain.com | 💼 https://www.linkedin.com/in/sagar-chapagain-352451aa/

- Developed scalable cloud solutions using AWS (EC2, S3, Load Balancing) and delivered diverse applications, including real-time chat, e-commerce, LMS, and ride-sharing platforms.
- Introduced a performance-based strategy, enhancing team efficiency and aligning individual goals with project objectives which led to 20% increase in satisfaction and alignment of teams
- Revamped a legacy PHP system into a scalable architecture using Next.js and Nest.js, ensuring a zero-downtime rollout. Increased website reliability from 80% to 98% and reduced technical debt, enhancing long-term maintainability

Sep 2016 - Aug 2018   *Senior Software Engineer*   E-Multitech Solutions, Nepal

- Delivered 12+ projects for clients across various regions Singapore, Malaysia, USA, UK, Nepal, and India, including auction platforms and real-time bidding solutions.
- Developed and Deployed REST APIs for mobile applications, integrated third-party APIs, including payment gateways (PayPal, Stripe) and social media platforms.
- Conducted code reviews, mentored junior developers and ensured code is maintained to its quality and consistency
- Led sprint planning and organized retrospective meetings within Agile frameworks, optimizing project workflows and boosting team productivity

May 2014 - Jul 2016   *Software Engineer*   F1 Soft International Pvt. Ltd, Nepal

- Developed Card Management and Loan Management Systems for banking clients, improving transaction reliability and user experience.
- Created stored procedures, database views, and migrations for MySQL, Oracle, and MSSQL to enhance data processing.
- Connected core banking systems using ODBC for real-time transaction updates.
- Provided live support and feature enhancements, ensuring compliance with banking industry standards, supported growth and satisfaction of clients with 25% increase in positive feedbacks

Projects

- Implemented and worked on a Machine learning algorithm using Python to predict the price of a used car. (as a part of Masters project and planning to improve the performance to be used for production scale)
- https://thebloggersclub.com/ : A blogging platform and a community for writers to follow, share with each other and support each other's growth.

Certifications

➔ AWS Certified Solution Architect Associate

Education

2014 *Bachelor Degree*   **Tribhuvan University, Nepal**
Bachelor's degree in Electronics and Communication Engineering

2021 *Master in Economics (Econometrics major)* **Tribhuvan University, Nepal**