







Samar Acharya

Software & Cloud Architect, Technology Leader

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 English, Nepali, Hindi, Spanish

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BACKGROUND



ABOUT

Tech enthusiast, avid reader, life-long learner and thought leader for product tech strategy throughout the career. Also, an open-source enthusiast and part-time contributor in various OSS ecosystems.



WORK EXPERIENCE


• Staff Engineer, Snappt

May, 2023 - Present

ML powered fraud detection platform

- Built infrastructure configuration with terraform and CI/CD with github actions
- Led the technical implementation for Automated Validation component in core application
- Initiated and collaborated with key stakeholders to help build architectural standards across the teams
- Implemented industry standard security practices on core application
- Tech highlights: Elixir, Javascript, Typescript, Node.js, PostgreSQL, AWS, Kubernetes, React, Github Actions, Terraform

Principal Cloud Application Architect, Zego (Powered by PayLease)

May, 2019 - Apr, 2023  3 years 11 months

Zego provides property management services and solutions such as payment, billing and smarthome systems

- Worked with VP, directors and tribe leaders and product team on strategic growth and platform maturity

- Worked with various teams for architectural foundations and cloud native SOA converting majority of 20 years old monolith to 20+ microservices
- Reviewed various architectural proposals on high-level system design and code implementations
- Provided leadership guidance for smart and engage initiatives
- Managed cloud platform of Zego
- Engaged in technical diligence in M&A efforts
- Worked with security group and provide code reviews and perform internal pentests
- Designed and developed micro-frontend architecture and template and help teams adopt it
- Built and maintained mobile ci/cd workflows and helped teams with react-native hands-on work
- Tech highlights: Elixir, Javascript, Typescript, Node.js, .NET Core, PostgreSQL, MongoDB, InfluxDB, AWS, GCP, Kubernetes, Harness, Concourse, React, React Native, Bitrise, C, C++

Lead Software Architect, Zego, Inc.

Jan, 2017 - May, 2019 ⌚ 2 years 4 months

Smart-home and multi-family residential solution; acquired by PayLease in May 2019

- Managed and maintained infrastructure and application
- Led a team of engineers to build successful cloud and device solutions
- Managed cloud platform of Zego
- Helped company make successful exit by building solid technical foundation
- Built all the various smart home voice integrations of Zego
- Architected and implemented third-party property management and payment integrations
- Tech highlights: Elixir, Javascript, Typescript, Node.js, Python, C, C++, PostgreSQL, MongoDB, InfluxDB, AWS, GCP, Kubernetes

DevOps Engineering Manager, Brightergy, LLC

Sep, 2014 - Dec, 2016 ⌚ 2 years 4 months

Clean energy technology solution to turn energy data into actionable intelligence.

- Wrote backend api and IoT device code in elixir and python
- Led a team of engineers to build successful cloud and device solutions
- Managed cloud platform of BrighterLink, the energy platform including scaling, high availability, security and resilience at all level
- Designed the solutions and implementation details for various core business features
- Tech highlights: Python, Elixir, Javascript, Node.js, PostgreSQL, TempoIQ, InfluxDB, AWS, GCP, Kubernetes

Chief Technology Officer, Techgaun Nepal Pvt. Ltd.

Dec, 2013 - Aug, 2014 ⌚ 8 months

Startup building local data analysis platform as a product while sustaining itself via the outsourcing work.

- Led a team of developer to build data analysis platform for local business data
 - Designed, implemented and delivered custom software solutions for the clients
 - Tech highlights: Python, Javascript, Wordpress, MySQL, PostgreSQL
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Release Engineer, Deerwalk, Inc.

May, 2013 - Dec, 2013 ⌚ 7 months

Developed solutions for data analysis and management of US healthcare turning the vast amount of data into actionable insights and intelligence and used for patient care, insurance assessment, etc.

- Built a highly flexible deployment environment for highly resilient platform
- Implemented local dev environment with dummy data generation for several large-scale projects
- Performed security assessment against various projects
- Tech highlights: Python, Javascript, Java, Groovy, .NET, Hadoop, MSSQL Server



SKILLS

DevOps

Ansible Amazon Web Services Google Cloud Docker Heroku Micro-services Puppet
Linux Windows NoSQL RDBMS Kubernetes Harness Concourse MongoDB

Backend Engineering

Elixir Javascript Typescript Phoenix REST Message Queues Node.js Python
Platform Security PHP NoSQL RDBMS MEAN Alexa Google Actions Kafka
MongoDB Authn, Authz, OAuth2, OpenID Connect

Architecture

Domain Driven Design Microservices Service-oriented architecture Enterprise Integration
Low Latency Systems Distributed Systems

Frontend Engineering

HTML CSS Javascript AngularJS D3.js Highcharts Bootstrap React React Native
Micro-frontend



EDUCATION

Computer Engineering, Bachelor, Kathmandu University

Aug, 2009 - Dec, 2013

3.68 - A in computer related courses

Computer Graphics Compiler Design Computer Systems Architecture
Principles of Programming Languages



VOLUNTEER WORK

Technical Co-ordinator, Help Nepal Network

Jan, 2012 - Dec, 2012

The largest charitable network of Nepalis, HELP NEPAL Network: One Dollar a Month Fund for Nepal is a global charity run on a fully voluntary basis. Help Nepal Network runs a educational project with a goal of deploying one electronic library per district.

- Led a team of volunteers to deploy electronic library using LTSP and provided training to the students
- Developed a complete solution to automate the deployment of electronic library

Network Engineer, Kathmandu University Boys Hostel

May, 2012 - Oct, 2013

I maintained and managed internet connectivity and network of more than 200 hosts in a hostel network.

- Built an automated traffic shaping utility and firewall policy
- Developed and implemented various network security measures for ethernet and WiFi network



INTERESTS

Computer Security

Exploit development

Web security

Mathematics

Statistics & Probability

Calculus

Algebra

Numerical Methods

Sports

Football (Soccer)

Table Tennis (Ping Pong)

Juggling

Board Games