

Manoj Chapagain

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SUMMARY STATEMENT

Experienced software engineer with 7 years in web development, distributed systems, and cybersecurity. Proven track record building and leading teams to deliver high-quality products on tight deadlines across fintech, cybersecurity, IoT, and SaaS sectors.

EDUCATION

Project Managemnt - IT <i>Seneca College</i>	Toronto, Canada May. 2023 – Dec. 2023
Bachelor's degree in Computer Engineering <i>Tribhuvan University, IOE Pulchowk Campus</i>	Lalitpur, Nepal Oct. 2012 – Jun. 2016

EXPERIENCE

Full-Stack Developer <i>Mechatronic</i>	Feb. 2024 – Present Canada
<ul style="list-style-type: none">Led end-to-end development across frontend, backend, CI/CD pipelines, and production infrastructure, employing DevOps methodologiesDeveloped packages optimized for Debian-based Linux systemCreated numerous libraries, templates, and essential resources to enhance project efficiency and maintainability	
Backend Developer <i>Microsec</i>	May. 2022 – Apr. 2023 Singapore
<ul style="list-style-type: none">Designed and implemented the security protocols used by IoT and network devices using Python and Cryptography lib.Designed a microservices-based architecture using Docker and Kubernetes to deploy and manage many services across a cluster of servers	
Sr. Software Engineer <i>Codavatar</i>	Jan. 2021 – Mar. 2022 Kathmandu, Nepal
<ul style="list-style-type: none">Senior contributor in a Krispcall (a Cloud Phone System) using webRTC and twilio which grew tremendously in the past yearsLed the backend team and delivered a quality product in a demanding time period using async Python frameworks, GraphQL, PostgreSQL, and DockerExplored topics like domain driven architecture/clean architecture, and software design patternsConducted performance tuning, optimization and refactoring for better performance, scalability, and reliability of the system	
Full Stack Developer <i>Janaki Tech.</i>	Nov. 2017 – Dec. 2020 Lalitpur, Nepal
<ul style="list-style-type: none">Built the front-end from scratch using React, which increased the user base from 1M to 10M within one year for an early-stage fintech companyEngineered payment gateway and Wallet; Integrated APIs and services from third-party providers, such as banks, telecoms, e-commerce platforms with stack of Python, Django, React.js, and AWS	
Jr. Full-Stack Developer <i>Grepsr</i>	Dec. 2016 – Nov. 2017 Kathmandu, Nepal
<ul style="list-style-type: none">Gained valuable experience in the company that provides web scraping and data extraction servicesBecome familiar microservice-based architecture and technologies such as gRPC, Docker, KubernetesAutomated the CI/CD pipeline using Jenkins, GitLab	

OPEN SOURCE PROJECTS

Employee Management System <i>Python, Django, drf, React, PostgreSQL, Docker</i> Source	June 2020
databases-extensions <i>SqlAlchemy, Postgres, GraphQL, Cursor Pagination</i> Source	May 2021 – Present

PUBLICATIONS

Effects of Auto-Tuning and Pitch Normalization on Query by Humming

June 2020

International Journal of Advanced engineering

Source

TECHNICAL SKILLS

Languages/Scripts: Python, Javascript, C/C++, Golang, SQL (Postgres), bash

Frameworks/Libraries: Flask, Django, DRF, Starlette, FastAPI, gRPC, ariadne, graphine, SQLAlchemy, rabbitmq, redis, Qt, OpenGL, Pandas, Matplotlib, React, Vue.js, Node.js, Selenium, Cypress

Cloud/Tools: Git, GitHub Actions, Gitlab CI, Jira, Asana, AWS

Others: Linux, Docker, Ansible, nginx