Shashi Gharti, MSc

Software developer
Github: https://github.com/shashigharti
Website: https://shashigharti.github.io/
Kathmandu, Nepal
shashi.gharti@gmail.com

WORK EXPERIENCE

Senior Software Developer(Contract, Remote), Reel-to-Reel - *Apr 2025 - Present* | *Canada, Toronto*

- ➔ ***Refactored the legacy code*** and implemented new features, ***improving*** code quality and overall website performance.
- ➔ Monitor and ***optimize*** the website through continuous improvement.

ML Engineer(Contract, Remote), Omdena Inc - *Dec 2024 - Mar 2025* | *USA*

- ➔ Built a scalable pipeline to download and process ***satellite images (radar and optical)*** for pre- and post-event disaster analysis.
- ➔ Set up servers, developed frontend components ***(React), and*** created ***API endpoints.***

Software Developer(Contract, Remote), Open Knowledge Foundation(OKFN) - *Apr 2022 - Oct 2023* | *Cambridge, UK*

- ➔ ***Developed*** and ***maintained*** key features for ***open-data libraries*** and software, including frictionless-py, frictionless-ci, CKAN, enhancing functionalities and performance for a global user base.
- ➔ ***Contributed*** to the development of **OpenDataEditor**, an open-source, web-based ***data editing tool*** for the frictionless-py library, enhancing usability and accessibility.

Team Lead/Senior Developer, Robust IT Concepts Pvt Ltd. - *Feb 2018 - Mar 2022* | *Kathmandu, Nepal*

Software Architect/Senior Developer, Element7Digital Pty Ltd. - *Aug 2015 - Jan 2017* | *Geelong, Australia*

Software Engineer/Team Lead, Integrated Solutions (MNC) - *Aug 2011 - Dec 2014* | *Kathmandu, Nepal*

Senior/Software Developer, Sustainable Solutions (MNC) - *Apr 2005 - July 2011* | *Nepal*

EDUCATION

- **MSc. in Computer Science, Asian Institute of Technology (AIT), Thailand -** *Aug 2008 - Mar 2010* | *Thailand*

AWARDS / PRESENTATIONS/ CERTIFICATIONS

- **Computational Neuroscience, Neuromatch Academy** (Online) | *2024* **(link)**
- **Machine Learning Engineer Path** (Online) | *2023* **(link)**
- **Wikimania Presentation,** Data use and reuse: Unlocking the Potential of Frictionless Data for Wikidata (Online) | *2023* **(link)**
- OxML**, Oxford Machine Learning Summer Course** (Online) | *2021* **(link)**

PERSONAL PROJECTS/ OPEN SOURCE CONTRIBUTIONS (Volunteer)

- **Data Scientist,** Aileen Health (Remote) | *June 2024 - Oct 2024* | *Austria* (link)
- **Decoding Cortical Activations,** Neuromatch Academy (Online) | *June 2024 - Aug 2024* **(link)**
- **Privacy-Preserving Browser,** Chrome Extension (Remote) | *Jan 2021 - Dec 2023* *(link, github)*
- **Gene Expression Analysis,** Nanostring Competition (Online, Honorable Mention) | *May 2021 - June 2021* **(link)**
- **Performance and Robustness Evaluation,** mozilla/PRESC (Remote) | *Mar 2020* **(link)**
- **5-minute video for a research paper,** Stanford Scholar Initiative (Online) | *Apr 2017 - Dec 2017* **(link)**

TECHNICAL SKILLS

React, TypeScript, Mapbox, Python, Django, Flask, FastAPI, PHP, Laravel, PostgreSQL, PostGIS, MySQL, Qdrant, NoSQL, Pytorch, Pandas, LangChain, Object Detection, Agentic, MCP(Model Context Protocol), QGIS, SNAP, Xarray, NetCDF, AWS, Docker