# Shashi Gharti, MSc

*Software developer*
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WORK EXPERIENCE

**ML Engineer(Contract, Remote, Part-time), Omdena Inc** - *Dec/2024 - March/2025.* - USA

➔ Processed satellite images(radar and optical) for pre and post-event analysis for disaster monitoring.
➔ Developed a pipeline to download and process the data to generate various analyses.
➔ Research on geospatial data processing techniques for various disaster events and integrated in the pipeline as required.
➔ Server setup, Frontend(React) and API development.

**Data Scientist(Contract, Remote, Part-time), Aileen Health** - *June/2024 - Oct/2024.* - Austria

➔ Transformed and cleaned various datasets for model training.
➔ Built a pipeline to streamline the processing, transformation of the data.
➔ Conducted EDA to identify trends, anomalies, and insights about the data.
➔ Researched various state-of-art techniques to improve early detection of breast cancer signs.

**Software Developer(Contract, Remote), Open Knowledge Foundation(OKFN)** - *April/2022 - October/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.
➔ Collaborated with senior developers to develop open-source **web-based data editing tool (OpenDataEditor)** for the frictionless-py library, enhancing usability.
➔ Delivered **presentations at community meetings** showcasing our work.
➔ Provided **technical support** and **troubleshooting** for global users.

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

➔ Architected and developed scalable web applications including **Dynamic data collection and reporting tools**, the **E-commerce platform** "Reddoko" (serving 15,000 users) and a customizable **Content Management System (CMS)** improving the efficiency by **40%.**

- ➔ Led **R&D initiatives to integrate new technologies** into existing systems to enhance existing functionality and user experience.
- ➔ Collaborated with clients to gather **requirements** and provided support with **90% client satisfaction rate**.
- ➔ Successfully contributed to **AI & ML projects(POC)** including a **chatbot and disease diagnosis systems.**
- ➔ Mentored and **trained junior team members**, improving **team productivity 20%**.

**Software Architect/Senior Developer, [Element7Digital](#) Pty Ltd. -** *Aug/2015 - Jan/2017 -* Geelong, Australia
- ➔ Refactored and **re-architected** the **legacy code base** to reduce bugs(30-40%).
- ➔ Led team (4+ junior developers) to develop various **e-commerce applications,** improving delivery time **20% faster** by **optimizing** the code and the workflow.
- ➔ Led **research and development initiatives** to integrate new features into **e-commerce applications,** enhancing functionalities.
- ➔ **Mentored** and **trained** junior team members to increase **productivity by 20%**.

**Software Engineer/Team Lead, [Integrated Solutions](#)(MNC). -** *Aug/2011 - December/2014* - Kathmandu, Nepal
- ➔ **Promoted** to Team Lead for demonstrating **leadership and high-quality work**.
- ➔ Collaborated with the deployment team to implement the **Electronic Cheque Clearing System (ECC)** for national bank "**Nepal Rastra Bank (NRB)",** effectively replacing the manual cheque-clearing system.
- ➔ Conducted **Training of Trainers (TOT)** sessions to educate member banks on the ECC system.
- ➔ Produced comprehensive **technical documentation** for HRemit, a Remittance system, of **Himalayan Bank Limited (HBL).**
- ➔ Part of the team in the successful deployment of nswitch, a **Credit Card processing software**, at Himalayan Bank Limited (HBL), strategically replacing legacy software to accommodate American Express services.
- ➔ **Mentored and trained** junior team members.

**Senior/Software Developer, [Sustainable Solutions](#)(MNC)** - *April/2005 - July/2011,* Nepal
- ➔ Promoted to **Senior Developer** for consistently delivering high-quality work.
- ➔ Led the development of software solutions for **national and international clients** using technologies such as **4th Dimension, Javascript, Flex, MySQL and PHP**, delivering projects on time and **exceeding client expectations.**
- ➔ **Researched** and **implemented** emerging technologies to improve system functionalities.

➔ Conducted testing, documentation and deployment
➔ **Optimized** code, reducing **data processing time by 10-15%.**
➔ Provided **on-site training** and **technical support.**
➔ Mentored and trained junior staff.

## EDUCATION

⇢ **MSc. in Computer Science, Asian Institute of Technology (AIT),** Thailand, *2010*
  ○ **Thesis**: "**Multiple Person Tracking and Left Luggage Detection using Appearance Models**" under the supervision of **Dr. Matthew Dailey**.
⇢ **Bachelor of Computer Applications (BCA), Pokhara College of Technology (PCT),** *2004*.

## AWARDS / PRESENTATIONS/ CERTIFICATIONS

➔ **Machine Learning Engineer Path,** ([link](#))
➔ **Computational Neuroscience, Neuromatch Academy,** *2024* ([link](#))
➔ **OxML, Oxford Machine Learning Summer Course,** *2021* ([link](#))
➔ **Wikimania Presentation,** Data use and reuse: Unlocking the Potential of Frictionless Data for Wikidata, *2023* ([link](#))
➔ **Runner up, Master's Thesis Competition in Informatics and Communications** Technologies, Asian Institute of Technology (AIT), *2010*
➔ **Scholarship (50%), Masters**, Asian Institute of Technology, *2010*
➔ **Gold Medal, Aishwarya Vidya Padak (2004), National Award** for achieving the highest score among female candidates (Bachelor in Computer Applications), *2005*
➔ **Scholarship (50% merit-based), Bachelor's degree, [LA Grandee International College](#)**, (Former Pokhara College of Technology [PCT]), *2001 - 2004*

## PERSONAL PROJECTS/ OPEN SOURCE CONTRIBUTIONS (Volunteer)

⇢ **Neuromatch Academy, Online,** *2024* ([link](#))
  ○ Decoding Cortical Activations: A Multi-Feature Approach (link)
⇢ **Privacy Preserving Browser,** Chrome Extension**,** *(2021 -2023) (*[link](#), [github](#)*)*
⇢ **Gene Expression Analysis,** Nanostring Competition (Honorable Mention), *2021* ([link](#))
⇢ Contributed **mozilla/PRESC, Open Source,** *2020* ([link](#))

⇢ Contributed in developing a 5 minute video for a research paper, **Stanford Scholar Initiative**, *2017* ([link](link)**)**

## TECHNICAL SKILLS

**Python, Django, Django Rest Framework, Mapbox, Flask, FastAPI, ETL(Basic), Deep Learning(CNN, LLM), NLP, Computer Vision, JavaScript**, **React.js,** TypeScript, Vue.js**, GIT, OpenCV, Pytorch, GIS, API Integration, HTML5/CSS,** Node.js**, Linux,** C/C++(basic), Java(Intermediate)**, Dask, DevOps, Docker, AWS, Digital Ocean, Azure(Basic), Google Cloud(Basic),** Database architecture and design(Intermediate), **MySQL, PostgreSQL,** LAMP/LEMP stack administration, **Pytest,** PHPUnit, PHP, Laravel, Android(Basic), React Native(Basic), **ETL**

## REFERENCES

Evgeny Karev, Team Lead, OKFN(Open Knowledge Foundation)
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