

# Suresh Kumar Mukhiya

## Curriculum Vitae

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## Education

- 2018–2021 **PhD**, *Western Norway University of Applied Sciences*, Thesis: *A Software Framework for Adaptive and Interoperable Internet-Delivered Psychological Treatments*, Doctoral degree awarded on 21st September, 2021, Norway.
- 2014–2016 **Masters In Information System**, *Norwegian University of Science and Technology*, Thesis: *Predicting The Next Click With Web Log Process Mining*, Average Grade: B, Norway.
- 2008–2013 **Bachelor In Computer Science and Information Technology**, *Kathford International College of Engineering and Management*, Grade: 91.6%, Decorated with Vice-Chancellor Award, Nepal.

## Skills

- Project Management **IT project management**, INTERMEDIATE.
- SAFE agile methodologies, SCRUM
  - Project planning, Communication, Quality control
  - IT team leadership
  - Documentation and publishing
- R&D **Research and Development**, INTERMEDIATE.
- Problem domain analysis and further research
  - Experienced in documentation and research publishing in high impact factor journals/conferences.
- Web Technologies **Full-stack development**, ADVANCED.
- Better understanding of JavaScript and TypeScript,
  - Working knowledge of ReactJS, GraphQL, React Query, and others
  - Testing frameworks like JEST, Cypress
  - CSS Frameworks Material UI, Tailwind CSS, Bootstrap, Foundation, Ant Design. Working knowledge of SCSS and LESS.

Python stacks	<b>Artificial Intelligence, INTERMEDIATE.</b> <ul style="list-style-type: none"> <li>Exploratory Data Analysis using Pandas, SciKit-Learn, SciPy, Seaborn, matplotlib,</li> <li>Working knowledge of classical Machine Learning algorithm using Scikit-learn, SciPy, Numpy, Keras, Pandas, Matplotlib</li> <li>Working knowledge of classical ML and neural network using TensorFlow 2.0.</li> <li>Interested in Natural Language Processing and Understanding</li> </ul>
WordPress	<b>Content Management System, ADVANCED.</b> <ul style="list-style-type: none"> <li>Themes and Plugins Development and customization</li> <li>WordPress security and troubleshooting</li> <li>Search Engine optimization</li> <li>Multisite WordPress development and management</li> </ul>
SEO	<b>Search Engine Optimization, ADVANCED.</b> <ul style="list-style-type: none"> <li>On-Page and off -page optimization</li> <li>Link building, back-link building, directory submission, content optimization, blog commenting, book marking, social book marking, etc</li> <li>Search Engine Marketing (SEM)</li> <li>Search Media Marketing (SMM)</li> </ul>
Modeling	<b>Software Modeling Languages, BASIC.</b> <ul style="list-style-type: none"> <li>Have used Business Process Modeling Notation (BPMN, and the XML form BPML)</li> <li>Working knowledge of Flowchart</li> <li>Working knowledge of Unified Modeling Language (UML)</li> <li>Domain Specific Modeling (DSM) especially using DSL(Domain Specific Language).</li> </ul>
Version Control	<b>Versioning (SVN and GIT), INTERMEDIATE.</b>
Cloud	<b>Cloud Infrastructure), BASIC.</b>

## Certifications

SAFe5 Agile Software Engineer	Certified SAFe 5 Software Engineer, Issued by <i>Scaled Agile Inc</i> , <a href="https://www.credly.com/badges/faf7a4b6-e5c1-49e2-9b8e-454d4902e204">https://www.credly.com/badges/faf7a4b6-e5c1-49e2-9b8e-454d4902e204</a>
SAFe5 Architect	Certified SAFe 5 Software Architect, Issued by <i>Scaled Agile Inc</i> , <a href="https://www.credly.com/badges/4c7bff00-3e2e-4f11-836e-92135d35a6e5">https://www.credly.com/badges/4c7bff00-3e2e-4f11-836e-92135d35a6e5</a>

Software Design	Software Design as an Element of the Software Development Lifecycle by <b>University of Colorado</b> on Coursera. Certificate earned on June 28, 2020, <a href="https://www.coursera.org/account/accomplishments/verify/39GMLSTZXLAL">https://www.coursera.org/account/accomplishments/verify/39GMLSTZXLAL</a>
Responsive Website	Responsive Website Basics: Code with HTML, CSS, and JavaScript by <b>University of London &amp; Goldsmiths, University of London</b> on Coursera. Certificate earned on February 2, 2016, <a href="https://www.coursera.org/account/accomplishments/verify/UEGGN7MAZR6X">https://www.coursera.org/account/accomplishments/verify/UEGGN7MAZR6X</a>
Interactivity with JavaScript	<b>Interactivity with JavaScript</b> by <b>University of Michigan</b> on Coursera. Certificate earned on January 24, 2016, <a href="https://www.coursera.org/account/accomplishments/verify/ZZNWJU9G8VQA">https://www.coursera.org/account/accomplishments/verify/ZZNWJU9G8VQA</a>

## Work Experience

2021(August)-present **Senior System Developer, Tryg Norway**, <https://www.tryg.no/>.  
I am responsible for designing and developing a web application that facilitates insurance agents to access various risks associated with any property. The system provides the best possible personalized quotes to enterprise customers based on the risk assessment.

ReactJS	GraphQL	Apollo Client	TypeScript	Material UI	Cypress, JEST
Python	Azure	SAFe Agile Methodologies	GitLab	SonarQube	Miro.com
CI/CD	BDD	TDD	JIRA		

2018-2021 (July) **PhD Researcher, HVL, Norway**, <https://www.hvl.no>.  
The study attempted to use Model-based Software Engineering (MBSE), design thinking, and AI approaches to create adaptive and interoperable Internet-Delivered Psychological Treatments (IDPT) systems.

Python	ReactJS	GraphQL	TypeScript	Ant Design System	Node JS
MongoDB	GitHub	Circle CI	draw.io	Agile methodologies	R&D

2017 - 2018 **Software Developer, FestPop, Inc, Kansas City (Remote)**, <https://festpop.com/>.

The company hosts a web application that aggregates festivals worldwide and gives the best user experience of Recommendation System based on user preferences. I was responsible for managing the application, including modelling, designing and then developing.

ReactJS	Redux	JavaScript	Ant Design System	Node JS	MySQL
GitHub	Circle CI	draw.io	Agile methodologies		

2016 - 2018 **Fullstack Developer, Landed, Inc, San Francisco, (Remote)**, <https://www.landed.com/>, .

Landed is a company with the mission to help essential professionals build financial security near the communities they serve. I was responsible for developing and maintaining the web application to create and sustain financial applications workflows.

ReactJS	Redux	Redux-Saga	JavaScript	Node JS	PostgreSQL
GitHub	Circle CI	draw.io	SCRUM	AWS/S3	

2016(June)–2017(July) **Frontend Developer, Sincos Software AS, Norway**, <https://www.24netbutikk.no/>.

24estore is a Norwegian company that develops e-commerce solutions for customers worldwide. I was responsible for both the Front-end and backend work.

ReactJS	Redux	UIKIT	Laravel	MySQL	Circle CI	SCRUM
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2015–2016 **Fullstack Developer, nowHow AS, Norway.**

Responsible of design and development of Learning Management System using WordPress in multisite environment. Developed ad-dons and plugins that are compatible with LearnDash LMS plugin that integrates with the system.

2013–2014 **Lead WordPress Developer, codeBox, (Remote)**, <http://www.gocodebox.com>.

I was responsible for the development of websites using their WordPress theme framework referred to as *PushPress*.

WordPress	Git	Gulp	PHP	MySQL	Kanban
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2010–2016 **Freelancer on UPWORK.COM (Remote)**, [www.upwork.com](http://www.upwork.com).

I worked as a freelancer in upwork and provided the following services:

- Project management and consulting
- Website designing, development and maintenance
- WordPress theme development and customization
- Web application development consulting services
- Search Engine Optimization
- Website troubleshooting and maintenance service including web security

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## Research Publications

- Doctoral thesis **A Software Framework for Adaptive and Interoperable Internet-Delivered Psychological Treatments**, Western Norway University of Applied Sciences, *Authors: Suresh Kumar Mukhiya*.  
<https://hdl.handle.net/11250/2778982>
- Journal paper **An HL7 FHIR and GraphQL approach for interoperability between heterogeneous Electronic Health Record systems**, Health Informatics Journal, *Authors: Kumar Mukhiya, Suresh and Lamo, Y.*  
<https://doi.org/10.1177/14604582211043920>
- Book chapter **Artificial Intelligence in Mental Health**, Artificial Intelligence: Models, Algorithms and Applications, 2021, Mukhiya, S. K., Aminifar, A., Rabbi, F., Pun, V. K. I., & Lamo, Y..  
<https://doi.org/10.2174/97816810882661210101>
- Journal paper **Attention-based Deep Entropy Active Learning using Lexical Algorithm for Mental Health Treatment.**, Frontiers in Psychology, *Authors: Ahmed, U., Kumar Mukhiya, S., Lin, J. C.-W., Srivastava, G., & Lamo, Y.*  
<https://doi.org/10.3389/FPSYG.2021.642347>
- Journal paper **Adaptive Elements in Internet-Delivered Psychological Treatment Systems: Systematic Review**, JMIR, *Authors: Suresh Kumar Mukhiya, Jo Dugstad Wake, Yavus Inlal, Ka I Pun, Yngve Lamo*.  
<https://www.jmir.org/2020/11/e21066>
- Conference paper **Efficient Mining of Pareto-Front High Expected Utility Patterns**, Trends in Artificial Intelligence Theory and Applications. Artificial Intelligence Practices. IEA/AIE 2020. Lecture Notes in Computer Science, vol 12144. Springer, Cham., *Authors: Usman Ahmed, Jerry Chun-Wei Lin, Jimmy Ming-Tai Wu, Youcef Djenouri, Gautam Srivastava, Suresh Kumar Mukhiya*.  
[https://doi.org/10.1007/978-3-030-55789-8\\_74](https://doi.org/10.1007/978-3-030-55789-8_74)

- Conference paper **Adaptation of IDPT System Based on Patient-Authored Text Data Using NLP.**, 2020 IEEE 33rd International Symposium on Computer-Based Medical Systems (CBMS), *Authors: Suresh Kumar Mukhiya, Usman Ahmed, Fazle Rabbi, Ka I Pun, Yngve Lamo.*  
<https://doi.org/10.1109/CBMS49503.2020.00050>
- Journal paper **Adaptive Systems for Internet-Delivered Psychological Treatments**, IEEE Access, *Authors: Suresh Kumar Mukhiya, Jo Dugstad Wake, Yavus Inlal, Yngve Lamo.*  
<https://doi.org/10.1109/ACCESS.2020.3002793>
- Conference paper **Designing Chatbots for Guiding Online Peer Support Conversations for Adults with ADHD**, CONVERSATIONS 2019. Lecture Notes in Computer Science, vol 11970. Springer, Cham, *Authors: Oda Elise Nordberg, Jo Dugstad Wake, Emilie Sektnan Nordby, Eivind Flobak, Tine Nordgreen, Suresh Kumar Mukhiya, Frode Guribye.*  
[https://doi.org/10.1007/978-3-030-39540-7\\_8](https://doi.org/10.1007/978-3-030-39540-7_8)
- Conference paper **A GraphQL approach to Healthcare Information Exchange with HL7 FHIR**, DOI: 10.13140/RG.2.2.22981.19680, Elsevier Science in the open-access Procedia Computer Science series on-line (2019).), *Authors: Suresh Kumar Mukhiya, Fazle Rabbi, Ka I Pun, Adrian Rutle, Yngve Lamo.*  
<https://doi.org/10.1016/j.procs.2019.11.082>
- Workshop paper **An architectural design for creating self-reporting e-health systems**, DOI: 10.13140/RG.2.2.14802.30404, In ICSE 2019 Proceedings in the IEEE Digital Library (2019).), *Authors: Suresh Kumar Mukhiya, Fazle Rabbi, Ka I Pun, Yngve Lamo.*  
<https://doi.org/10.1109/SEH.2019.00008>
- Journal paper **An Architectural Style for Single Page Scalable Modern Web Application**, 5(4), 6-13, International Journal of Recent Research Aspects ISSN: 2349-7688, *Authors: Suresh Kumar Mukhiya, Hoang Khac Hung.*  
<https://www.ijrra.net/Vol5issue4/IJRRRA-05-04-02.pdf>

## Technical Book publication

- Data analytics, Python **Hands-on Exploratory Data Analysis**, 2020, Packt Publishing Limited, *Suresh Kumar Mukhiya, Usman Ahmed.*  
<https://www.amazon.com/Hands-Exploratory-Data-Analysis-Python/dp/1789537258>
- Big Data & Machine Learning **Hands-on Big Data Modeling**, 2018, Packt Publishing Limited, *Co-authors: James Lee, Tao Wei, Suresh Kumar Mukhiya.*  
<https://www.amazon.com/Hands-Big-Data-Modeling-professionals-ebook/dp/B07FDLQVQZ/>

React, Redux **Redux Quick Start Guide**, 2019, Packt Publishing Limited, *Co-authors: James Lee, Tao Wei, Suresh Kumar Mukhiya.*  
<https://www.amazon.com/Redux-Quick-Start-Guide-beginners-ebook/dp/B07P9H3C72>

## Awards

2014-2016 Quota Scholarship by Norwegian Lånekassen.  
2013 Awarded Nepal Board Topper, **Vice Chancellor Award**, Tribhuvan University.

## Reference Links

Github <https://github.com/sureshHARDIYA>  
linkedin <https://www.linkedin.com/in/sureshhardiya/>  
Personal Website <https://www.skmukhiya.com.np/>  
WordPress <https://profiles.wordpress.org/sureshhardiya/>  
Plugins [#content-plugins](#)  
Upwork <https://www.upwork.com/users/~0182e0779315e50896>

## Languages

Maithali	<b>Mothertongue</b>	
Nepali	<b>National Language</b>	<i>Expert</i>
English	<b>Expert</b>	<i>Good Communication, and Written Skills</i>
Hindi	<b>Intermediate</b>	<i>Good Communication skills</i>
Norwegian	<b>Beginners</b>	<i>Can comprehend and speak a bit. Passed A2 level.</i>

## Interests

- Blogging	- Fishing
- Travelling	- Photography
- Hiking	- Gardening