

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%, Recognized with Vice-Chancellor's Award for academic excellence (top score), Nepal.

Work Experience

- 2026(Jan)- **Tech Lead, Lerøy Seafood Group**, <https://www.leroyseafood.com/>.
Current I lead the design and development of internal digital solutions across frontend, backend, cloud, and AI-driven systems. My role includes defining technical architecture, guiding developers, improving code quality, managing Azure-based infrastructure, and ensuring secure, scalable, and maintainable solutions that support business needs across the organization.
- ReactJS

Tailwind

TypeScript

Azure

Azure SQL

FastAPI

SonarQube

FE Security

CI/CD

TDD

Agentic AI

Microfrontend architecture

Python
- 2024(August)- **Tech Lead, Tryg Norway**, <https://www.tryg.no/>.
2025 I am responsible for leading and architecting the design and development of customer-facing applications.
- VueJS

SCSS

TypeScript

Stencil JS

Oracle

PL/SQL

SonarQube

FE Security

CI/CD

TDD

Universal Design

Microfrontend architecture

JAVA/Kotlin
- 2021(August)- **Senior System Developer, Tryg Norway**, <https://www.tryg.no/>.
2024(Jan) I am responsible for designing and developing a web application that allows 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 **PhD Researcher, HVL, Norway**, <https://www.hvl.no>.
(July) 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, Lokincubator, Inc., Kansas City (Remote)**, <https://lokincubator.com/>.

Lokincubator provides modern web and mobile solutions, from idea to launch. I contributed to their festival aggregator web application, which recommends global festivals to users based on their preferences. My role included modeling, designing, and developing end-to-end features.

ReactJS	Redux	JavaScript	Ant Design	NodeJS	MySQL
GitHub	CircleCI	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 maintain financial applications workflows.

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

2016(June)– **Frontend Developer, Sincos Software AS, Norway**, <https://www.24netbutikk.no/>.
2017(July) 24estore is a Norwegian company that develops e-commerce solutions for customers around the world. I was responsible for both the front-end and back-end work.

ReactJS	Redux	UIKIT	Laravel	MySQL	Circle CI	SCRUM
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2010–2018 **Fullstack developer on UPWORK.COM (Remote, freelancer)**, www.upwork.com.

I worked as a freelancer in Upwork and provided services related to designing and developing web applications.

WordPress	PHP	ReactJS	Redux	NextJS	Node JS	MySQL	Circle CI	MongoDB
AWS	CI/CD	Web Security	Python	SCRUM				

Technical Book publication

Data analytics, **Statistics for Data Scientists and Analysts**, 2025 Edition, BPB Online, *Dipendra Pant*,
Python *Suresh Kumar Mukhiya*.

Data analytics, **Hands-on Exploratory Data Analysis**, 2020, Packt Publishing Limited, *Suresh Kumar*
Python *Mukhiya, Usman Ahmed*.

- Big Data & Machine Learning **Hands-on Big Data Modeling**, 2018, Packt Publishing Limited, Co-authors: James Lee, Tao Wei, Suresh Kumar Mukhiya.
- React, Redux **Redux Quick Start Guide**, 2019, Packt Publishing Limited, Co-authors: James Lee, Tao Wei, Suresh Kumar Mukhiya.

Selected Publications

- Doctoral thesis **A Software Framework for Adaptive and Interoperable Internet-Delivered Psychological Treatments**, Western Norway University of Applied Sciences, Author: Suresh Kumar Mukhiya.
- 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..
- 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..
- 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..
- 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.
- 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.
- 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.
- Journal paper **Adaptive Systems for Internet-Delivered Psychological Treatments**, IEEE Access, Authors: Suresh Kumar Mukhiya, Jo Dugstad Wake, Yavus Inlal, Yngve Lamo.
- 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.
- 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.
- 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.

- 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>
- Workshop Poster **An architectural design for creating self-reporting e-health systems**, *Awarded as Best Poster*, 2nd Bergen-Budapest Workshop on Qualitative and Numerical Aspects of Mathematical Modelling), Authors: *Suresh Kumar Mukhiya, Fazle Rabbi, Ka I Pun, Yngve Lamo*.
<https://doi.org/10.13140/rg.2.2.14802.30404>
- Master Thesis **Predicting The Next Click With Web Log Process Mining**, *This thesis proposes a methodology for revealing deep content interaction models from real-life web logs. The methodology is applied to web log data from Adresseavisen, a regional news publisher in Norway.*, Norwegian University of Science and Technology (NTNU), Supervisors: *Gulla, Jon Atle & Ingvaldsen, Jon Espen*.
<http://hdl.handle.net/11250/2411539>
- Master Project **User Segmentation: Revealing User Characteristics From Interaction Logs**, Norwegian University of Science and Technology (NTNU), Supervisors: *Gulla, Jon Atle & Ingvaldsen, Jon Espen*.