

Hareesh Mandalapu

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Professional Summary

Computer Scientist and Software Engineer with 4+ years of industry experience and a Ph.D. in Information Security. Skilled in developing AI/ML-driven solutions for biometrics, computer vision, and cloud-native applications. Experienced in Data Engineering and building scalable microservices with .NET, Kubernetes, and Azure. Passionate about applying technical skills and advanced research to deliver high-impact practical software systems.

Technical Skills

Programming / Frameworks	Python, C/C++, C#, .NET framework, SQL, Java, Go
Cloud / DevOps	Azure, Kubernetes, Docker, Microservices, OpenAPI
Machine Learning / Data	TensorFlow, PyTorch, Scikit-Learn, OpenCV, Pandas, NumPy
Certifications	Data Engineering with Azure - Udacity Nanodegree Microsoft Certified: Azure Data Scientist Associate Microsoft Certified: Azure AI Engineer Associate Generative AI - Udacity Nanodegree
Languages:	English (Fluent), Norwegian (Intermediate)

Professional Experience

Software Engineer

Riverty Norway AS, Oslo

SEPT. 2023 - PRESENT

- Designed and deployed scalable .NET microservices in Azure Kubernetes Service (AKS), improving deployment efficiency and system reliability.
- Led AI adoption initiatives as "AI Ambassador," integrating machine learning into the software development life cycle (SDLC).

System Developer

Mobai AS, Gjøvik

AUGUST 2021 - MAY 2023

- Researched and developed machine learning algorithms for biometric authentication, improving robustness against spoofing attacks.
- Built and deployed inference servers for real-time biometric verification pipelines using Docker and Kubernetes.

Research Fellow

NTNU, Gjøvik

APRIL 2020 - JULY 2021

- Developed deep learning approaches for efficient audio-visual biometric authentication.
- Published peer-reviewed papers on secure and robust biometric algorithms.

Scientific Researcher

HDA, Germany

APRIL 2018 - MARCH 2020

- Conducted R&D on iris biometrics and spoof detection techniques, leading to improvements in detection accuracy.

Research Assistant

NTNU, Gjøvik

NOV. 2017 - MARCH 2018

- Performed empirical studies on iris presentation attack detection methods, contributing to EU-funded biometrics projects.

Project Assistant

Colourlab, NTNU, Gjøvik

SEPT. 2016 - AUGUST 2017

- Contributed to a multidisciplinary project on color informatics and imaging technologies.

Research Intern

ENTPE, Lyon, France

JUNE 2016 - AUGUST 2016

- Designed and executed psychophysical experiments on visual color difference perception and data analysis.

Education

Ph.D. in Information Security and Communication Technology

NTNU, Norway

DISSERTATION: ROBUST ALGORITHMS FOR AUDIO-VISUAL BIOMETRIC AUTHENTICATION

2018 - 2021

M.Sc. in Colour in Informatics and Media Technology (Erasmus Master)

UJM, France & NTNU, Norway

DISSERTATION: REAL-TIME TRACKING OF SURGICAL TOOLS USING LED ADAPTIVE MARKERS

2015 - 2017

M.Tech. in Computer Science

University of Hyderabad, India

DISSERTATION: PRINT-SCAN RESILIENT WATERMARKING IN COLOR IMAGES USING SVM

2013 - 2015

B.Tech. in Computer Science & Engineering

JNTU, India

2009 - 2013

Research Publications

10+ peer-reviewed publications in international conferences and journals. Full list available at [Google Scholar](#).

Interests

Sports (Tennis, Squash, Badminton) & Psychology, Travel, Food & Culture, Reading.