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Work Experience

Ericsson AB — May 2023 – Present

Product Developer, Stockholm , Sweden

AI-Powered Error Analysis and Resolution Tool(NGTE Debugger):

- *Automated Error Detection & Resolution Mapping: Developed an AI-driven system that identifies error patterns, maps past solutions to recurring issues, and autonomously routes errors to predefined resolutions, minimizing downtime and enhancing troubleshooting efficiency.*
- *Data Processing & Cloud-Enabled Storage: Implemented web scraping for real-time data extraction, utilizing MySQL and MongoDB for structured storage, with cloud-based backup and retrieval to ensure scalability and accessibility for distributed teams.*
- *Predictive Maintenance & Workflow Automation: Designed an AI-powered predictive maintenance system that forecasts potential failures, automates issue resolution workflows, and generates hardware replacement reports accessible via cloud dashboards, improving reliability and operational efficiency.*

Chatbot for Radio Test Management

- Automated Test Case Preparation & Project Guidance: Developed and deployed an AI-powered chatbot designed to assist users in understanding radio testing specifications while creating test cases. The chatbot automates the explanation of complex specifications, enabling testers to quickly grasp requirements, reducing complexity, and streamlining the test case preparation process. This led to enhanced testing efficiency and ensured accurate and consistent test case creation.
- Real-Time Assistance & Integration with Test Management Tools: Integrated the chatbot seamlessly with the test management page, providing real-time guidance and support to users throughout the project lifecycle. The chatbot's intelligent querying capabilities allow testers to quickly access specific information related to test case parameters, improving workflow efficiency and error reduction during the testing phase.
- Cloud-Based Database & Frontend Interface: Utilized MySQL for structured data storage, ensuring scalability and easy retrieval of user interaction data. The chatbot interface was developed using Flask for the frontend, providing a simple, intuitive user experience for testers. Additionally, leveraged RAG (Retrieval-Augmented Generation) models to enhance the chatbot's ability to provide contextual, accurate, and up-to-date answers.

Ericsson AB — Jan2021 – Apr 2023

Developer

AI-Powered PDF Analyzer for Radio Test Environment Team

- *Automated Data Extraction & Intelligent Document Processing: Developed an advanced PDF analyser capable of extracting information from handwritten inputs, complex Word document checkboxes, and structured/unstructured data, improving accuracy and efficiency in warehouse data validation and processing.*
- *AI-Driven NLP & LLM-Powered Analysis: Integrated TensorFlow for document processing and Natural Language Processing (NLP) models enhanced with Large Language Models (LLMs) to intelligently interpret scanned reports, recognize patterns, and categorize extracted data for seamless downstream analysis.*
- *Cloud-Enabled Data Management & Scalable Deployment: Implemented a MySQL-based structured storage system with cloud-based backups to ensure real-time accessibility, enabling distributed teams to process and validate documents via a Flask-powered web interface, enhancing scalability and operational efficiency.*

Courses and Certifications

- Foundation of Project Management - Google - Project Management
- AWS Certified Cloud Practitioner - AWS Certified Cloud Practitioner
- Strategies for Cloud Security Risk Management – Google - Cloud Security Risk Management
- Implementing ML Algorithm Using scikit-learn – Skillsoft - ML Algorithm Using scikit-learn
- Google Associate Cloud Engineer: Google Cloud Overview -Google - Associate Cloud Engineer
- Kafka Fundamentals **Apache Kafka Specialization**

Education

Masters in Telecommunication – Blekinge Institute of technology, Karlskrona 2020 –2022

- Won Coding competitions held at University Skill Development Centre. Including Hackathons .
- Student ambassador for Telecommunication Department

Bachelors in Electronics and communication Engineering – JNTUK , INDIA 2015 – 2019

- Won University level workshop in Developing of Embedded web server on ARM9 Project**.**

Internships

BSNL, INDIA 2019-2020

Leadership Intern

- Led a dynamic team of interns, developing a Cloud based Augmented Reality platform. Successfully delivered all application features with minimum team and resources. Collaborated with Leadership team on developing competence around AR and VR through workshops and events for interns.
- Showcased developed project features and development progress to key stakeholders, receiving appreciation from CEO and leadership team. Initiated strategic partnerships with various events to showcase and market the product to target audiences.

Publications

A Novel Approach to Describe Edge Cloud SLA using TOSCA. click here

Implemented SLA management for Nubo, a blockchain-based decentralized edge cloud marketplace, to address trust issues between service providers and customers by developing formal contract mechanisms that define performance expectations and penalty frameworks using QoS indicators. Analyzed specific requirements for edge cloud SLA description in multi-party environments and network services, designing TOSCA models for SLA and SLA intent description tailored to edge cloud marketplace needs. The proposed models were validated through practical edge cloud use case implementation and evaluation, enhancing the Hyperledger Fabric-based marketplace with performance assurance capabilities.

Applications of Virtual Sensors in Real Time.

Focused on utilizing virtual sensors to enable real-time data collection, processing, and predictive analytics in a cloud environment. By integrating Data Science and Cloud Computing (IBM Cloud), sensor data was analyzed and optimized to enhance system efficiency. The implementation involved cloud integration, automation, and machine learning-driven insights, ensuring seamless remote monitoring and predictive maintenance. This approach aligns with cloud-native solutions and real-time infrastructure automation, essential for modern telecom and hybrid-cloud environments.

Technical Skills

- **Programming Languages -** C, C++, Python, Go, Moshell
- **Container Orchestration –** Kubernetes, Docker, Helm, Docker Swarm
- **CI/CD tools-** Jenkins, Spinnaker, Argo CD, Flux, Gitlab CI
- **AI and ML –** Deep Learning, Computer Vision, GenAI, LLM, CNNs
- **Cloud computing platforms-** AWS, GCP
- **Patterns & Practices-** Object-Oriented Programming, Functional Programming, DevOps, CI & CD.
- **Databases-** PostgreSQL, MongoDB, CouchbaseDB
- **Tools -** Eclipse, PyCharm, VS Code, Jenkins, Visual Studio, Cisco packet tracer
- **Version Control -** Git, GitHub, GitLab
- **Software** - MS Excel, MS PowerPoint, Microsoft SQL Server
- **Software Engineering Skills -** Agile & Lean approaches, version control, CI/CD Pipelines

Extracurricular activities

Talks & Workshops

- Presented a **seminar-style talk** as a **student representative** at **JNTUK University**, addressing an audience of **50+ PhDs, postdocs, professors, and students** on key academic and industry topics.
- Led **hackathons** focused on **application development** and **AI-driven solutions for real-world challenges**, fostering collaboration and innovation among participants.

Volunteer Experience

- Volunteered with **Kodcentrum**, a non-profit organization promoting coding education for children.
- Developed and delivered **hands-on coding workshops**, introducing fundamental programming concepts through interactive activities.
- Engaged young learners in **creative problem-solving**, nurturing their interest in technology and coding.