

# Dharma Teja Thoutam

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## PROFILE SUMMARY

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M.Sc. graduate in Electrical Engineering with professional experience at Ericsson, specializing in AI-powered systems, DevOps automation, and cloud-native infrastructure. Proven ability to design and deploy scalable applications using tools like Docker, Kubernetes, AWS, and LLMs. Known for cross-functional collaboration, continuous learning, and delivering efficient, production-ready solutions in Agile environments.

## SKILLS

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**Programming & Scripting:** Python, Bash, C, C++

**DevOps & Infrastructure:** Docker, Kubernetes, Jenkins, Git, Ansible, Terraform

**Cloud Platforms:** AWS (EC2, IAM, S3, EKS), Azure, OpenStack

**AI/ML & NLP:** LangChain, Hugging Face, TensorFlow, PyTorch, Scikit-learn, RAG, LLMs, NLP

**Monitoring Tools:** Grafana, Prometheus, OpenTelemetry, Siglens

**Web & Backend:** Flask, FastAPI, Django, REST APIs, PostgreSQL, MySQL

**Tools & Workflow:** Jira, Confluence, GitLab, Linux, Agile

## WORK EXPERIENCE

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### Master Thesis Student

Jan 2024 – Jun 2024

*Ericsson AB, Karlskrona, Sweden*

- Designed and implemented a RAG chatbot using **Python**, **LangChain**, **Hugging Face LLMs**, and **Qdrant**.
- Built a scalable, containerized backend using **Docker** and developed an interactive frontend with **Streamlit**.
- Validated with **95.24% satisfaction** and **90% preference** over human support via user surveys.
- Handled full-cycle development, testing, and documentation in an Agile team using **Jira** and **Confluence**.

### Summer Intern

Jun 2024 – Aug 2024

*Ericsson AB, Karlskrona, Sweden*

- Enhanced a production-grade AI support system by developing scalable infrastructure using **Docker** and **Python**.
- Automated log monitoring with **Grafana**, **Loki**, and **OpenTelemetry**, improving diagnostic efficiency.
- Led log monitoring for the **DDC platform**, collaborating with multiple teams in a fast-paced Agile environment.
- Worked with **LangChain**, **ChromaDB**, and **Kubernetes** for real-time observability and AI response tuning.

## PROJECTS

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### CI/CD Pipeline with AWS CodePipeline and CodeDeploy [Link Here](#) (Dec 2024)

- Built an automated **CI/CD pipeline** using **AWS CodePipeline**, **CodeDeploy** & **EC2**, reduced deployment time by 40%.
- Configured secure **IAM roles** and automated deployment for scalable rollout.

### Cloud-Native Monitoring System (AWS + Kubernetes) [Link Here](#) (Jan 2025)

- Developed a Python-based monitoring app using **Flask** to track CPU and memory metrics.
- Containerized with **Docker**, deployed on **AWS EKS** with **Kubernetes**.
- Leveraged **AWS ECR** for seamless image distribution and updates.

### SNMP Prober for Real-Time Network Monitoring [Link Here](#) (Apr 2023 – Aug 2023)

- Developed a **Python SNMP tool** using **EasySNMP** to monitor network metrics.
- Integrated robust error handling and protocol compliance for diagnostics.

### Job Portal Web App (Flask + CI/CD) [Link Here](#) (Mar 2025)

- Engineered a modular backend with **Flask**, **SQLAlchemy**, and **Flask-Login**.
- Implemented REST APIs and secured user sessions for production readiness.

### OpenStack Deployment Automation with Ansible [Link Here](#) (May 2023 – Aug 2023)

- Automated VM provisioning using **Ansible**, improving deployment efficiency.
- Monitored systems with **Grafana** and benchmarked support for 10,000 users.

## EDUCATION

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### Blekinge Institute of Technology (BTH)

Jan 2023 – Oct 2024

*M.Sc. in Electrical Engineering – Emphasis on Telecommunication Systems*    *Karlskrona, Sweden*

- Focused on **networking**, **telecom infrastructure**, and **automation**.
- Gained practical exposure to **SDN**, **DevOps**, and **cloud technologies**.

### JNTUH College of Engineering

Aug 2019 – Jan 2023

*Integrated B.Tech + M.Tech in Electronics & Communication Engineering*    *Hyderabad, India*

## CERTIFICATIONS

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- **AWS Cloud Technical Essentials** — Amazon (2025) [\[Link\]](#)
- **DevOps Beginner to Advanced** — Udemy (2024) [\[Link\]](#)
- **C++ Certification** — (2025) [\[Link\]](#)
- **Mastering Vector CANoe** — (2025) [\[Link\]](#)
- Also completed: Python Masterclass, MATLAB for Beginners, Jira Fundamentals, Prompt Engineering (OpenAI)