

# Dheeraj Thuvra | Software & AI Engineer

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## SUMMARY

AI enthusiast combining 12+ years of full-stack development - primarily in Ruby on Rails - with a strong focus on building intelligent systems with NLP, Computer Vision, Deep Learning, LLMs, and RAG. As Co-founder & CTO of Cocociti, I led full-cycle product development and applied data analysis to uncover key user engagement metrics and drive product decisions. Recently, I've built projects like a [traffic signal optimization](#) system using YOLOv8, [text summarizer](#) and [emotion analyzer](#) using spaCy model. With 7+ years in engineering leadership, I fostered collaborative teams and delivered scalable solutions using Agile, DevOps, and cloud-native practices.

## EDUCATION

### Master's in Applied Machine Intelligence

(Class of 2026)

Northeastern University, Boston, USA – (CGPA: 4, Key Topics: Applications in AI, Data Governance & Responsible AI)

### Advanced Certificate Programme in Data Science

02/2024 – 10/2024

International Institute of Information Technology, Bengaluru, India – (CGPA 3.68)

### Bachelor of Engineering, Electronics & Communication

06/2008 – 06/2012

PSNA College of Engineering & Technology, Dindigul, India

## TECHNICAL SKILLS

Programming Languages: Ruby, Python, JavaScript, TypeScript, HTML, and CSS.  
ML Libraries: NLTK, Scikit-learn, PyTorch, TensorFlow, OpenCV, YOLO(Ultralytics), XGBoost, LightGBM  
Analytics & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly  
Frameworks and Libraries: Rails, VueJS, jQuery, FastAPI, REST  
Databases: MySQL, PostgreSQL, MongoDB, MariaDB  
Cloud Technologies: AWS (IAM, EC2, S3, Lambda, CloudWatch, Route53), GCP, Docker, Kubernetes, Podman.  
Tools: Git, GitHub, RabbitMQ, TravisCI, Jenkins, JIRA, Asana, Figma, Power BI, Tableau.

## PROFESSIONAL EXPERIENCE

### Technical Manager - Encora Innovation Labs, Bengaluru, India

03/2019 – 12/2024

- Led development for [WebAdMIT](#), an admissions solution, managing a team of 7 professionals using Agile and Scrum.
- Improved website accessibility from 20% to 95% by implementing [508](#) standard and screen reader support.
- Built an AI PoC to analyze applicant profiles and recommend courses or specializations with a confidence score.
- Performed data analysis using SQL and Tableau to uncover insights that improved the admissions process by 15%.
- Managed peak loads of 100,000+ college applications per minute, maintaining system stability and performance.
- Implemented CI/CD pipelines using TravisCI, Jenkins, Docker, and Kubernetes for streamlined, reliable deployments.
- Developed unit and integration tests for Ruby on Rails applications, achieving 97% test coverage.

### Senior Software Developer - GrabOnRent Int. Pvt. Ltd., Bengaluru, India

12/2017 – 02/2019

- Developed Ruby on Rails modules for an online rental platform, managing inventory of 300 products and 5,000 SKUs.
- Migrated frontend technologies to ReactJS and integrated them with Rails-based REST APIs.
- Implemented Elasticsearch, improving product search performance by 40%, resulting in faster search results.
- Managed DevOps pipelines using Docker and Kubernetes for efficient deployments.

### Founder and Chief Technology Officer – Cocociti Int. Pvt. Ltd., Bengaluru, India

11/2015 – 11/2017

- Built a social media platform with instant messaging for users to share and monetize their wishes.
- Led a team of 5, overseeing coding, server operations, database management, and UI design.
- Utilized Google Analytics, Mixpanel, and Hotjar, cutting bounce rate by 20% and increasing engagement by 25%.
- Built an online rental aggregator platform with 30 categories and 10,000 products and integrated vendor payments.

### Systems Engineer – Tata Consultancy Services, Kochi, India.

02/2013 – 10/2015

- Developed modules for corporate projects, including fitness tracking and Corporate Social Responsibility platforms.
- Migrated databases from MySQL to PostgreSQL for enhanced performance.
- Designed and developed Ruby on Rails applications and revamped UIs for seamless user interactions.