Manoharan Thushantha Sanju
Software Engineer | AI & Machine Learning
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Github | Website | Linkedin

Professional Summary

Software Engineer with 3+ years of experience building scalable full-stack and AI-powered applications. Skilled in Python, TypeScript, React, Next.js, and microservices architectures with experience delivering production systems across international teams. Currently pursuing MSc in Artificial Intelligence focusing on reliable machine learning, NLP, and explainable AI.

Skills

- **Languages:** Python, TypeScript, JavaScript, SQL
- **AI / Machine Learning:** PyTorch, TensorFlow, Scikit-learn, Transformers (BERT), NLP, Conformal Prediction, Explainable AI, Deep Learning
- **Frameworks:** React, Next.js, NestJS, Express, Flask
- **Backend & Systems:** REST APIs, Microservices, Distributed Systems, System Design
- **DevOps & Cloud:** Docker, CI/CD (GitHub Actions, Jenkins), AWS (EC2, S3), Monitoring
- **Databases:** PostgreSQL, MongoDB, SQL/NoSQL
- **Tools:** Git, Linux, Jest, PyTest

Professional Experience (3+ Years)

- **CueCard AI - Software Engineer | San Francisco, USA | Jan 2025 – Mar 2025**
  - Built AI sales assistant using React, Node.js, and Python reducing content production time by 50% and improving engagement by 35%.
  - Designed modular architecture integrating CMS, social and analytics APIs for scalable automation workflows.
  - Implemented monitoring and automated testing achieving 99.9% uptime.
- **Bconic - Software Engineer | Toronto, Canada | Aug 2024 – Dec 2024**
  - Developed marketing automation platform using Next.js, Node.js, and TypeScript reducing campaign setup time by 45%.
  - Implemented workflow builder, email automation pipelines and real-time dashboards.
- **Level 33 Solutions - Software Engineer | Brasilia, Brazil | Jun 2023 – Jul 2024**
  - Modernized hospital management system using React, NestJS microservices improving latency by 30%.
  - Optimized UX and system performance improving user satisfaction by 20%.
- **OREL IT - Trainee Software Engineer | Colombo, Sri Lanka | Apr 2022 – Feb 2024**
  - Built CI/CD pipelines using Docker and GitHub Actions reducing deployment time by 60%.
  - Supported microservices migration improving reliability by 40%.

Personal Projects

- **Reliable ICD Code Recommendation using Conformal Prediction & Explainable AI -** Developed NLP system for automated clinical coding using transformer models with uncertainty-aware prediction and token-level explainability. Tech: Python, PyTorch, Transformers, NLP
- **Stock-Crypto Prediction Platform -** MERN + Flask ML application for financial market recommendation systems.
- **Movie Ticket Booking System -** Full-stack MERN application with JWT authentication.
- **Clinical Notes NLP Analyzer -** Transformer based NLP pipeline for clinical note entity extraction.

Publications

- **Recommendation System for Stock and Cryptocurrency Market Using Cutting Edge Machine Learning Technology -** International Research Journal of Innovations in Engineering & Technology - IRJIET · Nov 28, 2023
  Paper | ResearchGate

Education

- **MSc Artificial Intelligence and Human Factors** | Coventry University, United Kingdom | 2025–2026
- **BSc (Hons) Information Technology (Software Engineering)** | SLIIT – Sri Lanka Institute of Information Technology, Sri Lanka | 2020–2023