

SANTOSH MANOHARADAS

Full-Stack Software Engineer | AI & LLM Integration

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Summary

Software Engineer with 2+ years of production experience building full-stack, AI-powered, and automation solutions across Python, Node.js, NestJS, React.js, Laravel, and FastAPI. At Artslab Creatives, shipped LLM-powered chatbots, autonomous AI agent workflows, and n8n automation pipelines for live client products deployed on AWS, while also stepping into delivery leadership across the SKYLA, Nyvara, and Artslab LMS engagements – gathering requirements, coordinating sprint planning, and managing stakeholder communication. Set to graduate with First Class Honours in Computer Science in September 2026. Brings a strong foundation in REST API design, AWS cloud deployment, and translating business requirements into scalable technical solutions, with a track record recognised at CodeSprint 8 for NLP-driven AI work.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, Dart, SQL

Frontend: React.js, HTML5, CSS3, WordPress, Shopify

Backend & Frameworks: Node.js, NestJS, FastAPI, Laravel, REST APIs, GraphQL

Databases: MySQL, PostgreSQL

AI & Machine Learning: OpenAI API, LangChain, RAG, AI Agents, n8n, NLP, Deep Learning, PyTorch, Scikit-learn, YOLO, NumPy, Pandas

Cloud & DevOps: AWS (Certified Cloud Practitioner), Docker, Git, CLI Scripting

Tools & Practices: Agile/Scrum, Sprint Planning, Requirements Gathering, Technical Documentation

Professional Experience

Artslab Creatives

May 2024 – Present

Associate Software Engineer (Jul 2025 – Present)

- Built and maintained full-stack features across client products including an LMS, internal HR automation system, and employee clock-in/out monitoring platform using Node.js, NestJS, React.js, and Laravel.
- Designed and integrated REST API middleware and backend services using FastAPI and NestJS, enabling reliable data exchange across third-party systems and internal platforms.
- Assumed delivery leadership responsibilities across the SKYLA, Nyvara, and Artslab LMS engagements following the departure of the PM – gathering requirements, writing technical documentation, coordinating sprint plans, and managing stakeholder communication.
- Engineered LLM-powered chatbots and autonomous AI agent workflows using the OpenAI API and n8n, deployed on AWS for live client products, including automated content-generation and campaign-delivery pipelines.
- Planned and prioritised development work based on project urgency, business impact, dependencies, and technical risk, coordinating delivery across the team.
- Acted as the key communication point between developers, stakeholders, and clients – clarifying requirements, providing progress updates, and supporting the team in resolving delivery blockers.
- Reviewed completed features against project requirements before stakeholder sign-off and worked with the team to replace legacy implementations with more maintainable, scalable standards.

Software Developer Intern (May 2024 – Jun 2025)

- Contributed to full-stack development across React.js and Laravel, building and maintaining client-facing web applications under senior engineer guidance.
- Integrated AI chatbot systems using the OpenAI API into client-facing platforms and collaborated with cross-functional teams on QA testing and deployment across multiple live environments.
- Gained hands-on exposure to AWS cloud infrastructure, REST API integration, and scalable architecture patterns in a commercial environment.

Freelance

2023 – Present

Web Developer & Digital Consultant

- Delivered end-to-end Shopify and WordPress builds for small business clients, covering store setup, theme customisation, and payment integration.
- Developed custom Laravel-based web applications tailored to client-specific workflows and business logic.
- Managed engagements end-to-end using standardised templates for scoped project contracts, separate maintenance agreements, and invoicing, with clearly defined terms and additional charges for out-of-scope work.

- Implemented website performance optimisation, including caching, asset compression, and Core Web Vitals improvements, with measurable page load gains.
- Applied on-page and technical SEO practices resulting in improved organic search visibility for multiple client sites.
- Built client management, negotiation, and communication skills by working across a varied client base, developing a well-rounded perspective beyond the technical side of delivery.

Education

Informatics Institute of Technology (IIT)

2022 – 2026

BSc (Hons) Computer Science – First Class Honours, University of Westminster

St. Nicholas' International College

2010 – 2021

Cambridge O-Level & A-Level | Physics, Mathematics, Computer Science

Projects

Digital Witness AI – Retail Security Framework

Jan 2025 – Present

Python, PyTorch, YOLO, BiLSTM, Temporal Attention, Streamlit

- Architected an AI-powered retail security system integrating a real-time CCTV analysis pipeline with POS transaction data to audit scanning discrepancies.
- Engineered a PyTorch-based hybrid deep learning model utilising YOLO for action detection and a BiLSTM with Temporal Attention for sequence classification.
- Built a multithreaded Streamlit application serving live video inference with Explainable AI insights (Grad-CAM, SHAP) and automated forensic GIF generation.

Verisight – AI-Powered Misinformation Mitigation Tool

Oct 2023 – Sep 2024

NLP, Python, Scikit-learn, LangChain

- Awarded CodeSprint 8 2nd Runner-Up for a platform using machine learning to evaluate news credibility and curb misinformation spread.
- Engineered NLP models to detect headline-body incongruency and cross-article inconsistencies to surface reporting discrepancies.
- Built AI-driven cross-referencing features to visualise source contradictions and generate automated summaries for rapid fact verification.
- Integrated a community layer allowing users to contribute contextual notes, enabling collaborative auditing of digital media veracity.

Predictive ML Pipeline – Loan Eligibility Framework

Jan 2026

Python, Scikit-learn, Pandas

- Engineered a dual-stage CRISP-DM pipeline to automate loan approval classification and estimate maximum lending values.
- Developed and optimised Logistic Regression, Naïve Bayes, and KNN models integrated into a probability-based Voting Ensemble.
- Used GridSearchCV for hyperparameter tuning; evaluated performance via AUC-ROC curves, confusion matrices, and regression metrics, including R^2 , MSE, and MAE.

Awards & Certifications

CodeSprint 8 (Startup Hackathon) – 2nd Runner-Up

IIT 1st Runner-Up – 2nd Year Group Project (Verisight)

AWS Certified Cloud Practitioner

Rotaract Club of IIT – Led 7 Award-Winning Projects as Part of the Club's 16-Award Achievement

Extracurricular Activities

Rotaract Club of IIT

- Treasurer (2024/25) & Joint Sports and Recreational Director (2023/24)
- Planned and delivered multiple initiatives while coordinating with sponsors, vendors, and external stakeholders.

IIT Sports, Steve House Lead

IIT Basketball Team

- Active member competing in inter-institute tournaments.

References

Mr. Kushan Bhareti

Director, Inforwaves & Final Year Mentor, IIT

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Mr. Miyuru Dharmage

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