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Neeraj Bala

Student



ABOUT

Enthusiastic Software Engineer with strong hands-on experience in Python backend development, AI agents, vector databases, and cloud-native infrastructure. Skilled in building RAG pipelines, managing AWS cloud environments, and deploying microservices using Docker, Kubernetes, and GitLab CI/CD. Adept at automating data retrieval, database integrations, and scalable AI workflows.

TECHNICAL SKILLS

Languages	Python, C++, Shell Scripting
Cloud & Virtualization	AWS (Amazon Web Services), Azure, Docker, K8s (Kubernetes)
Containers & Automation	GitLab CI/CD, Ansible, Terraform, Jenkins
Databases & Storage	MySQL, PostgreSQL, DynamoDB, Oracle, NoSQL
Full-stack technologies	C#, REST APIs, React, Angular, JavaScript, HTML, CSS, .NET

WORK EXPERIENCE

Full-Stack AI Engineer
Freelance

Mar 2026 — Present
Gothenburg, Sweden

- Designed, built, and launched a full-stack e-commerce platform for Vali Cosmetics, independently handling the customer storefront and internal admin panel using Supabase and Vercel.
- Engineered an AI-powered inventory workflow where supplier invoice uploads automatically update stock levels, alongside a custom dashboard tracking revenue, margins, VAT, and shipment statuses.
- Developing a real-time Yard Management MVP for a logistics client using Mapbox, Supabase, and Vercel to monitor trucks from yard entry through exit.
- Managed the complete project lifecycle independently, from user research and ClickUp roadmapping to developing and shipping a secure, high-performance product tailored for non-technical staff.

DevOps and Test Developer Intern
Ericsson

Jun 2025 — Aug 2025
Borås, Västra Götaland County, Sweden

- Designed and implemented GitLab CI/CD pipelines that automated software build, testing, and deployment workflows.
- Developed a hybrid deployment and testing solution using Docker, C#, and LabVIEW to support hardware-dependent software testing environments.
- Automated deployment and validation tasks using PowerShell, reducing repetitive manual work and improving consistency across test workflows.
- Collaborated with engineers to troubleshoot software and test workflow issues, improving reliability and stability in an industrial environment.

Full Stack Developer Intern
Luday SE

May 2024 — Aug 2024
Gothenburg, Västra Götaland County, Sweden

- Assisted a 5-member agile team in delivering sokonekt, a production-ready MVP that connects SMEs through digital collaboration tools.
- Contributed to designing and implementing a scalable backend using Python Flask and REST APIs, leading to a 25% reduction in data latency.
- Supported the application of SOLID principles and established code review workflows in Bitbucket, resulting in a 30% decrease in post-release bugs.

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Machine Learning Intern

Aug 2022 — Jan 2023

U-Blox

Malmö, Skåne County, Sweden

- Assisted in building an anomaly detection system by analysing routing data to identify unusual network patterns.
- Supported the application and evaluation of machine learning models, including random forest, SVM, KNN, and decision trees, through feature engineering and data processing.
- Collaborated in implementing and evaluating software solutions using Python, with results visualised using Power BI and Tableau.

PROJECTS

Event-Driven AI Microservice & Model Lifecycle Pipeline

2026

- Architected an event-driven stream processing pipeline using Apache Kafka and FastAPI for asynchronous inference evaluation.
- Automated model lifecycle evaluation and regression testing using MLflow to track performance drift across releases.

LangGraph Multi-Agent Customer Support System

2026

- Orchestrated multi-agent routing workflows using LangGraph to process complex customer service tickets autonomously.
- Implemented input and output validation guardrails to ensure deterministic response accuracy and compliance.

Cloud-Native Monitoring Platform

2024

- Deployed containerised microservices using Docker and Kubernetes on AWS with Prometheus and Grafana for observability.
- Implemented scalable cloud storage and automated deployment workflows to support reliable platform operations.

AI Drone Recommendation System

2024

- Developed a Python and Flask web application backed by MySQL and machine learning models for port authorities.
- Built a dynamic scoring engine ranking drones on payload, range, and battery life for automated recommendations.

EDUCATION

Blekinge Institute of Technology, Sweden

2024 - 2026

Master's Programme in Computer Science

- **Thesis** - Adapting MotionBERT for Sports Motion Analysis: Extraction, Comparison and Generation of Continuous Poses [[Thesis](#)]
- **Relevant Coursework** - Machine Learning, Advanced (AI), Secure Software Engineering, Decision Support Systems, Big Data, Cloud Computing, Malware Analysis, Software Metrics, Software Engineering.

Blekinge Institute of Technology, Sweden

2022 - 2024

Bachelor of Technology, Computer Science

- **Relevant Coursework** - Mobile Application Development, Cloud Computing, Python Programming, Software Testing.

Jawaharlal Nehru Technological University Kakinada, India

2018 - 2022

Bachelor of Technology, Computer Science & Engineering

- **Courses** - C, C++, Java Programming, Operating Systems, Design and Analysis of Algorithms, Data warehouse and mining, Computer Organisation, Data Structures Algorithms, Computer Networks, R programming.