

Amritansh Jain

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ABOUT:

A Software and AI Engineer with nearly 6 years of experience specialising in building scalable software solutions and innovative AI-driven applications. Currently, I lead software and AI development at a dynamic startup, managing a small team and successfully establishing our entire technical infrastructure, developing the company's MVP, and continuously enhancing product features. With a Master's in Artificial Intelligence from UCL, my skills span advanced full-stack development (Django, React) and cutting-edge AI technologies (Generative AI, LLMs, NLP frameworks like Langchain and HuggingFace, Vector Databases). I thrive in agile, collaborative environments, leveraging strong leadership and communication skills to deliver impactful, data-driven outcomes.

TECHNICAL SKILLS:

- **Full-Stack:** Django (DRF), React, Lumen, Laravel, Flask, Ruby on Rails; UI frameworks: Tailwind, Radix UI.
- **AI & Machine Learning:** LLMs, Generative AI, NLP, Chatbots, Data Analysis, Visualization, Pre-processing; Regression, Classification, Clustering, Decision Trees, Deep Learning; Optimization, Hyperparameter Tuning, Feature Selection, Dimensionality Reduction.
- **ML Libraries & Frameworks:** Langchain, HuggingFace, Scikit-learn, Pandas, Matplotlib, Seaborn, NumPy, TensorFlow, PyTorch, Keras, OpenCV, SciPy, Statsmodel.
- **Databases & Data Infrastructure:** PostgreSQL, Pinecone (Vector DB), SQL, Oracle.
- **DevOps & Automation:** Docker, Apache Airflow (Data Pipelines), Jenkins, GitHub workflow, CI/CD methodologies.
- **Cloud & Hosting Services:** Render (Cloud hosting platform), AWS (S3 bucket).

PROFESSIONAL EXPERIENCE:

Software and AI Engineer, Bconnect (London, UK)

(Jan 2024 – Present)

- **Developed an innovative, agent-based ChatBot feature** providing actionable business insights to customers based on captured WiFi connection data. Leveraged advanced Retrieval-Augmented Generation (RAG) methods, integrated via serverless APIs (e.g., HuggingFace), and conducted extensive model evaluations to ensure accuracy and performance.
- **Built and is managing the company's data pipeline infrastructure** using **Apache Airflow**, establishing robust ETL processes to collect, transform, and load connection data from multiple WiFi providers (Unifi, Cisco, Cambium). Established distinct test and production environments and is handling deployments and DevOps tasks.
- **Led the development of Bconnect's core web application (Django, DRF, React, Radix UI)** from MVP to a full-fledged platform. Continuously driving feature enhancements and optimisations in collaboration with the other two software developers and the Chief Product Officer.
- **Collaborated in the development and launch of the captive portal MVP** using **Lumen and Tailwind**, individually integrated additional features, and handled multi-provider integrations. Managed all deployments to test and production environments, including minor DevOps responsibilities.
- **Architected and implemented application infrastructure** hosted on **Render (cloud hosting platform)**, managing environments, deployments, and maintaining overall system reliability.
- **Designed and set up a centralised PostgreSQL database**, effectively supporting diverse product verticals including the Web Application, Data Pipeline, and Captive Portal, ensuring robust data accessibility and consistency.
- **Responsible for troubleshooting and resolving bugs and issues**, significantly enhancing product stability and user experience through prompt, effective investigations and fixes.

AI intern, Hopstair (London, UK)

(Sep 2023 – Jan 2024)

- Collaborated on early-stage AI integration, developing and deploying Machine Learning REST APIs (**Flask, Python**) that significantly improved app recommendation accuracy and user engagement.

Jr. Software Developer – NIRT, Cognizant (Pune, India)
(Full Stack Developer – Ruby on Rails, Oracle)

(Jul 2020 – Sep 2022)

- **Led advanced development initiatives** on the NIRT clinical trial management application, significantly enhancing system performance, scalability, and reliability.
 - Managed and streamlined the entire Software Development Life Cycle (SDLC), implementing agile methodologies and CI/CD pipelines, resulting in efficient deployment cycles aligned with evolving client needs.
 - Provided high-level analytical support, conducting data analysis and producing comprehensive reports to proactively resolve critical issues and optimise application performance.
 - Authored detailed technical documentation covering testing strategies, deployment processes, and design specifications, greatly enhancing clarity and team productivity.
- Awarded **Rising Star** recognition for outstanding contributions to client-centric solutions and successfully navigating complex project environments.

Systems Engineer – NIRT, Infosys Pvt Ltd (Chennai, India)
(Backend Developer – Ruby on Rails, Oracle)

(Oct 2018 – Jul 2020)

- Developed and maintained backend functionalities on the NIRT application, directly contributing to streamlining clinical trial management processes.
- Performed rigorous quality assurance and supported end-to-end application reliability and operational enhancements aligned closely with specific client requirements.
- Regularly generated analytics reports and provided stakeholders with critical insights, facilitating informed decision-making and enhancing overall project transparency.

System Engineer Trainee, Infosys Pvt Ltd (Mysore, India)

(Jun 2018 – Oct 2018)

- Successfully completed extensive technical training in **Python, Oracle, PHP, and Linux System Administration**.
- Developed a trainee schedule management web app, achieving a high project score (92%), demonstrating strong proficiency in web technologies (**HTML, CSS, JavaScript, PHP, MySQL**).

EDUCATION:

MSc in Artificial Intelligence for Biomedicine and Healthcare, University College London (UK)
(2022-2023)

Graduated with Distinction, focusing on critical AI domains such as Probabilistic Modelling, Neural Networks, and Biomedical applications. My dissertation made significant strides by developing a **2D U-Net** deep learning model for the identification and synthesis of contrast-enhanced MRI images in glioma patients.

B.Tech in Electrical and Electronics Engineering, Galgotias College of Engineering & Technology (India)
(2014-2018)

Graduated with First Division with Honours, where the focused modules in the degree were Engineering Physics, Engineering Mechanics, Engineering Mathematics, Electrical Engineering & Electronics Engineering.

TRANSFERABLE SKILLS:

- Possess a dedicated and resilient work ethic with proven managerial skills, excelling in thorough documentation, adaptability to change, and a meticulous approach to achieving business objectives.
 - A reliable, quick learner, showcasing collaborative teamwork and problem-solving proficiency, with a steadfast commitment to confidentiality and integrity in high-pressure situations.
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