

## CONTACT DETAILS

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Leverage over 12 years of extensive experience in Software Development to lead and mentor cross-functional teams, driving the delivery of high-quality, scalable software solutions.

## EDUCATION

- Master of Technology in Computer Science, Punjabi University, Patiala, Punjab (May 2017)
- Bachelor of Technology, Punjab Technical University, Fategarh Sahib, Punjab (May 2009)

## CORE COMPETENCIES

- Technical Leadership
- Software Development Lifecycle (SDLC)
- Agile Methodologies
- Microservices Architecture
- CI/CD Pipeline
- Performance Optimization
- Risk Assessment
- Troubleshooting

## TECHNICAL SKILLS

- Computer Vision Engineering: OpenCV, EmguCV |Model (YOLOv2) |Deep learning with CNN |Computational Programming with Numpy |Convolutional and Recurrent Neural Nets |Data Science |Machine Learning
- Techniques: Async programming |Cloud development |Docker and Kubernetes |Design scalable Architecture |CI/CD |Prompt Engineering |Chain of thought| React prompting |Similarity search RAG |Autonomous agents
- Tools and Frameworks: C# .NET |Python |Flask| Tensorflow/Pytorch |LangChain LangGraph |GPT models |Vertex AI |Raspberry Pi | Camera
- Databases: PostgreSQL |MS-SQL| Firestore |Pinecone (vectorstore)

## SOFT SKILLS

- Communicator
- Collaborator
- Negotiator
- Problem Solver
- Creator

## PERSONAL DETAILS

Date of Birth: 19<sup>th</sup> August 1987

Languages Known: English, Hindi & Punjabi

Address: Chandigarh, Punjab

# VANRAJ NARULA

## PERSONAL PROFILE

- Extensive experience in developing and deploying AI solutions to solve complex business problems.
- Proficient in designing, training, and evaluating machine learning models, including neural networks.
- Skilled in implementing NLP techniques for text analysis, sentiment analysis, and language modeling.
- Aced the creation and implementation of a Python-powered, automated data upload system, which reduced the time required to upload data by 80% and saved the company 50+ hours per week.
- Experienced in applying computer vision techniques for image recognition, object detection, and image processing tasks.
- Strong background in data science, leveraging predictive analytics to extract insights and drive decision-making.
- Skillful at developing and optimizing algorithms for various AI applications.
- Well-versed in computer vision engineering, deep learning, machine learning techniques, and cloud development.
- Expertise in implementing CI/CD pipelines, reducing deployment time by 3 hours per deployment.

## WORK EXPERIENCE

### Deputy Manager |WNS Global, Gurgaon |May'21 – Present

#### Key Highlights:

- Proposing and implementing evaluation techniques for LLM-based RAG models using vector-based embeddings, cutting validation effort by 8 hours per 100 questions.
- Developing and integrated production-ready generative AI code into existing projects, enhancing extraction accuracy from shipping invoices by 25% and automating email classification for bookings.
- Addressing Google Chrome extension restrictions (Manifest version 3) by migrating core business logic to the back-end, ensuring consistent performance without degradation.
- Establishing a CI/CD pipeline on GCP, reducing deployment time and saving 3 hours per deployment.
- Designing a centralized dashboard that consolidates data from Postgres, optimizing reporting and analysis processes and saving over 15 hours weekly.
- Leading the development and deployment of a Python-powered, fully automated data upload system, decreasing data upload time by 80% and saving the company over 50 hours weekly.
- Developing an advanced AI agent framework capable of processing natural language queries for reporting and analytics. This innovative tool is translating natural language inputs into SQL queries, enabling seamless and efficient database interactions.
- Engineering robust prompting management tools for WNS users, allowing them to save, edit, and create new prompts effortlessly. These tools are also facilitating result comparison across different large language models (LLMs) and providing comprehensive usage analytics for informed decision-making.

### Senior Software Developer |Hashbrown Systems, Mohali, Punjab |Feb'18 – Apr'21

#### Key Highlights:

- Led a company-wide product training initiative that meaningfully improved team product knowledge and skills, resulting in a 40% increase in product adoption and a 30% enhancement in team productivity.
- Supervised the redesign of a web app and website to elevate user experience and functionality.
- Introduced and operationalized a SaaS model for a product, attracting 4 new clients and rejuvenating product offerings.
- Revamped the architectural design of a financial app, increasing data processing performance by 400%.
- Collaborated closely with the Director to deliver targeted training sessions, achieving a 50% boost in performance metrics.
- Teamed up with state universities to optimize hardware costs for producing 3D printed cameras, leading to significant cost savings and operational efficiencies.

## PREVIOUS EXPERIENCE

### Software Engineer | Apropos Technologies, Chandigarh |Nov'14 – Jan'18

### Program Analyst | Cognizant Technologies, Hyderabad | Jan'10 – Jan'12

## SIGNIFICANT HIGHLIGHTS

- Created asynchronous software for human temperature testing utilizing FLIR Lepton thermal camera technology.
- Achieved Oracle Certified Associate status in 2011.
- Engineered & implemented hardware & software solutions for vehicle counting camera networks.
- Integrated cellular/LTE networks for seamless video transfer capabilities.