

NITIN GARG

Software Engineer

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42, New Green Enclave, Kotkapura

Punjab, India



EXPERIENCE

Software Engineer (SEP)

J.P. Morgan Chase & Co. (JPMC)

Feb 2026 – Present Bengaluru, India

- Built a centralized control platform for ACBS to manage APIs, CRON jobs, and system monitoring, reducing operational effort by 90%.
- Led end-to-end ownership (frontend, backend, infra) from POC to production in 2 months.
- Architected scalable services for API orchestration, job scheduling, and observability dashboards.
- Tech: Python, FastAPI, React, Redis, DB2, Kubernetes, Prometheus, Grafana, Splunk

SEP Intern

J.P. Morgan Chase & Co. (JPMC)

June 2025 – August 2025 Bengaluru, India

- Built **Deadpool**, improving deployment reliability by detecting gray failures in CCB systems.
- Reduced troubleshooting time by 40% using backend APIs powered by Splunk queries.
- Developed React UI improving developer adoption and debugging efficiency.
- Tech: Java, Spring Boot, Cassandra, Splunk, React

Project Intern

Samsung India

Sept 2024 – May 2025 Virtual

- Built an **AI IDE agent** improving developer efficiency by 35%.
- Increased automation coverage by 50% using LLMs (LangChain, LangGraph).
- Enabled contextual code assistance within Tizen framework.

EDUCATION

BTech in Computer Science

Thapar Institute of Engineering and Technology

Aug 2022 – May 2026 Patiala CGPA 9.97

Senior Secondary Education

DAV Public School

April 2020 – April 2022 Kotkapura Score 98.4%

PUBLICATIONS

Journal Articles

- R. A. Nitin Garg Adarsh Sinha, "Multi-modal medical image fusion using improved dual-channel pcnn," *Medical & Biological Engineering & Computing*, vol. 62, 2024.

PROJECTS

Punjabi Speech-to-Signs

A sign language generation tool to help hearing impaired individuals

- Achieved **88% accuracy** and reduced Word Error Rate to **12%** by developing an **NLP-based application** that transforms Punjabi speech into Indian Sign Language using **Python, PyTorch, NLTK, and Flask**.
- Improved accessibility for hearing-impaired users by training and fine-tuning speech-to-sign models, enabling real-time sign language generation.
- [GitHub link](#) for project

tktable: A GUI module for Python

A Python module to display tables in Tkinter GUI

- Enhanced Python's GUI ecosystem by developing and publishing the **tktable** module on **PyPI**, as measured by its availability via `pip install tktable` for global use.
- Increased developer productivity by simplifying table integration in Tkinter applications, making GUI development faster and more intuitive.
- [PyPI repository link](#) for project

ACHIEVEMENTS

Problem Solving
Solved 400+ problems on **LeetCode**, strengthening algorithms and data structures expertise

3x Hackathon Winner
Winner at the **Smart India Hackathon**, **JPMC's CodeForGood**, and **Smart Punjab Hackathon**

Merit Scholarship Awardee
Awarded **100% tuition fee waiver** for outstanding academic achievements

SKILLS

- C/C++ Python Java SQL
- Spring Boot FastAPI Kubernetes
- Docker React Mongo Cassandra
- Data Structures & Algorithms DBMS
- Object-Oriented Programming OS