

VISHNU VARDHAN PUPPALA

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[LinkedIn](#)

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[Portfolio](#)

Summary

Software Engineer with 1+ years of experience in **Java Spring Boot and microservices**. Enhanced reporting performance using caching and pagination. Reduced client query response times by 85% through automation, and delivered a zero data-loss migration solution.

Experience

BNY - Bank of New York

July 2024 – Present

Software Engineer

Chennai, Tamil Nadu

- Developed and deployed **REST APIs using Java Spring Boot** to replace a legacy reporting system, enabling modern PDF/Excel reports for **over 3000 clients** and improving reliability and maintainability.
- Worked with large datasets (**100K+ records**) that had varied configurations across different attribute types, using **caching and pagination** to make report generation faster.
- Built an internal **SQL query based AI assistant** using a RAG setup to automate client query handling, **reducing average resolution time from 6 minutes to under 30 seconds**.
- Designed and implemented a **data migration** framework ensuring **100% data accuracy** and zero data loss across environments.
- Partnered with **senior engineers, product owners, and QA teams** to define technical requirements, review design proposals, and present end-to-end solutions.

MAQ Software

May 2023 – July 2023

Software Developer Intern

Hyderabad, Telangana

- Automated end-to-end UI testing using **Playwright (JavaScript)** and command-line workflows to validate user flows and data integrity, **cutting manual QA effort by 90%**.

Education

Indian Institute of Technology Tirupati

Nov 2020 – July 2024

Bachelor of Technology – Computer Science and Engineering – GPA: 8.56/10

Tirupati, Andhra Pradesh

Projects

Randomized Neural Architecture Search | *Python, PyTorch*

September 2023 – May 2024

- Proposed a Randomized Neural Architecture Search (RNAS) framework combining ideas from NAO and MRAS for **more efficient architecture discovery**.
- Followed a 4-component system (encoder, performance predictor, decoder, enhancer) achieving **97.22% accuracy** on CIFAR-10 and competitive results on PTB.
- Showcased effectiveness across CNNs and RNNs compared to standard NAS and NAO approaches.

Debt Detective | *ReactJS, Bootstrap*

March 2023 – April 2023

- Developed a **VS Code extension** that analyzes project health across 5 technical debt dimensions, automating metric aggregation from 4 external tools.
- Implemented workflows to aggregate and visualize metrics from various tools, providing developers with insights and recommendations to enhance their code and reduce technical debt.

Technical Skills

Programming Languages and Databases: C++, C, Java, JavaScript, TypeScript, Python, SQL, DB2, MongoDB

Frameworks and Web Technologies: Spring Boot, Express.js, React.js, Next.js, HTML, CSS, Bootstrap

Core Competencies and Tools: REST APIs, Microservices, System Design, Git, JUnit

Big Data and Distributed Systems: Familiar with Kafka and Spark fundamentals.

Certifications & Achievements

Competitive Programming | *C++*

January 2023 – Present

- Expert in Codeforces – Rating of 1622. (Codeforces profile)
- 5-star Coder in CodeChef – Rating of 2039. (CodeChef profile)
- Among the top 2.5% coders in LeetCode – Rating of 2026. (LeetCode profile)

JEE Advanced

September 2020

- Secured a rank of 1873 in JEE Advanced 2020 (out of 12,00,000+ Applicants for JEE).

NPTEL

- Top 1%** in NPTEL certifications – Cryptography and Network Security, Blockchain and its Applications.