Dhananjay Dhawale

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Education

Year	Degree/Certificate	Institute	CPI/%
2019 - 2023	B.Tech	Visvesvaraya National Institute of Technology, Nagpur	7.42/10
2016	10th (Maharashtra State Board)	SVPS School, Kumbhar Pimpalgaon	93.8%

Experience

- **Software Development Engineer — BNY** (*Pune, India 2023–present*)
  - Developed and implemented robust **web** and **software applications** with **2 years' experience** in **Java Spring Boot**.
  - **Led** a 6-month migration of codebase from Spring Boot to an internal enterprise framework, including a **Java 11 to Java 21 migration** and **remediation of over 650 vulnerabilities**, applying **software engineering fundamentals**
  - Developed and optimized over **10 APIs** within a month during a hackathon, including a chatbot API fine-tuned for specific use cases and a microservice template similar to Spring.io, consuming GitLab APIs.
  - Enhanced the NetX 360 application by implementing **Hazelcast caching** for external API calls, improving system performance by **15%** and efficiency by **20%** through optimized network requests.
  - Implemented a **cron job** for **Splunk logs retention**, automatically compressing and pushing log archives to a **data lake**, ensuring compliance and optimizing storage.
  - Contributed to frontend accessibility **enhancements** for visual readers using **Angular**, and enhanced the NetX Investor application with new features and performance optimizations, ensuring **high quality**.
  - Participated in **Agile ceremonies** (**SCRUM**), **collaborating cross-functionally** to deliver solutions.
- **DSA Mentor — VNIT** (*Nagpur, India 2022–2023*)
  - Mentored students from various colleges on Data Structures and Algorithms, personally recommended by college professors.
  - Designed and delivered comprehensive sessions covering the entire DSA syllabus.

Projects

- **Chess Lens (Final Year Project)** (*Mobile App*)
  - Developed a mobile application to convert 3-D chess images to 2-D representations, integrating with the Stockfish engine.
  - Utilized advanced **computer vision algorithms**, specifically **YOLO v8**, for precise chess piece detection and classification, enabling accurate game state recognition, real-time analysis and strategic insights.
- **Chess Heat Map** (*Web App*)
  - Developed a full-stack web application using **Java Spring Boot** (backend) and **Angular** (frontend).
  - Consumed the **Lichess API** to fetch per-user game data, visualizing played games as a **heatmap**.
  - Implemented advanced filtering functionalities, allowing users to analyze games by **year, variations**, for deeper insights.

Achievements

- Recognized as a **highest performer at BNY Mellon in my team for 6 consecutive months** based on code metrics, achieving the highest number of average daily commits and consistent office presence.
- **Competitive Programming Expertise:** Achieved **5* rating** (2098) on **Codechef**, **expert** (1617) on **Codeforces**, and **guardian** (2293) on **Leetcode** (**top 0.7 percentile worldwide**). Solved **4000+ DSA problems** across platforms (**GFG**, Leetcode, **Hackerrank**), participating in **325+ live contests** in 2 years while maintaining a **404-day LeetCode streak**.
- Achieved **Institute rank 1 on GFG**, **Rank 18 on Hackerrank** and earned recognition as the **highest-rated competitive programmer of my college** for a significant period. Achieved multiple top ranks, including **3 times under 50 world rank** in CodeChef Starter Contests and **10+ times under 100 AIR** in LeetCode contests, along with various goodies and prizes.
- Secured **99.63 percentile in JEE Mains (AIR 4449 amongst over 12 lakh candidates)**.

Extracurricular Activities & Interests

- Served as **President at Cyclists of VNIT**, and was a member of the **Chess Club** and **Photography Club of VNIT**.
- Enjoy **writing technical blogs on Medium** and threads on X, reading, cycling, dancing, playing chess, badminton and piano, photography, listening to classical music, watching anime / web series, and actively exploring cutting-edge AI/ML advancements, including Large Language Models (LLMs).

Technical Skills

- **Programming Languages:** Java, C, C++, Python, SQL
- **Frameworks/Libraries/Software:** Spring Boot, JUnit, Mockito, Postman, Insomnia, Hazelcast
- **Database/DevOps Tools:** MySQL, MongoDB, Git, GitLab, Docker, Splunk, Prompt Engineering
- **Concepts:** OOPs, DSA, OS, CN, Computer Vision, Machine Learning, **Large Language Models (LLMs)**, **System Design**, **Agile Methodologies**, **Code Review**, **Troubleshooting**, **Software Development Life Cycle (SDLC)**, **Unit Testing**