Amit Kumar

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EDUCATION

• **B P PODDAR INSTITUTE OF MANAGEMENT AND TECHNOLOGY** *June 2022- Present*
Bachelor of Technology in Computer Science GPA: 7.44 (till 5th Sem)
  ◦ Kolkata, WB

• **BRITISH ENGLISH SCHOOL** *April 2022*
Higher Secondary Education Grade: 71.6%
  ◦ Gaya, Bihar

• **BRITISH ENGLISH SCHOOL** *April 2020*
Secondary Education Grade: 83.8%
  ◦ Gaya, Bihar

PROJECTS

• **Realtime Chat Application [⬡]** *January 2025*
Tools: [ReactJS, Java, Spring Boot, Maven, WebSocket]
  ◦ Developed a real-time chat application, supporting 50+ concurrent users with 99.9% uptime.
  ◦ Integrated WebSocket, reducing message latency from 200ms to 120ms (40% improvement).
  ◦ Optimized message delivery, decreasing response time from 500ms to 350ms (30% speedup).
  ◦ Designed a scalable architecture, enabling seamless communication for up to 100 users.

• **Bank Management System [⬡]** *October 2024*
Tools: [Java (AWT, Swing), MySQL]
  ◦ Built a banking system with account creation, transactions, and user management for 100+ accounts.
  ◦ Implemented secure user authentication using hashed passwords, improving data security.
  ◦ Optimized MySQL queries, reducing average data retrieval time from 1.2s to 1.0s (15% faster).
  ◦ Integrated a loan calculator, supporting 5+ loan types for better financial planning.

• **Face Mask Detection [⬡]** *February 2023*
Tools : [Python (OpenCV, TensorFlow), Machine Learning]
  ◦ Developed a real-time AI-based face mask detection system with 70%+ accuracy.
  ◦ Trained the model on 5,000+ labeled images, improving detection accuracy by 20%.
  ◦ Integrated real-time webcam monitoring, processing 15 FPS (frames per second) for instant detection.

TECHNICAL SKILLS

• **Programming Languages:** Java (17), Python, C
• **Software Development :** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Networking
• **Frameworks & Tools:** Spring Boot, Maven, Gradle
• **Database Systems:** MySQL, MongoDB
• **Web Technologies:** JavaScript, HTML, CSS, ReactJS
• **Cloud & DevOps:** AWS (basic), Docker, Git/GitHub, REST APIs

INTERNSHIP EXPERIENCE

• **Walmart Virtual Experience Program [⊕]** *December 2024*
Virtual Internship Remote
  ◦ Built custom data structures (Heap, HashMap) in Java, optimizing performance by 20%.
  ◦ Designed an entity-relationship model for a retail database system.
  ◦ Solved real-world software engineering challenges simulating industry problems.

CERTIFICATIONS

• **Java Foundations:** Mastering the Basics
• **ReactJS for Ecommerce:** Building a Store with ReactJS
• **MongoDB:** The Complete MongoDB Developers Course
• **Google Developer Student Club:** HTML, CSS, and JavaScript

KEY ACHIEVEMENTS

• Solved 200+ coding problems on LeetCode, HackerRank, and GFG, improving problem-solving ability.

• Secured 2nd place in Code Bee (50+ participants), solving 5 complex problems under 2 hours.

• Secured 3rd prize in HackStorm, a college hackathon competing against 250+ participants.

• Volunteered at NAVPRAYAS, contributing to 15+ rural education initiatives to support underprivileged students