

# Abhimanyu Pandey

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## PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of full-stack development experience and an MS in Information Science (Machine Learning Emphasis). Proven record of delivering scalable, enterprise-grade applications in healthcare and pharmaceutical domains. Skilled in Java, Spring Boot, Angular, SQL/NoSQL databases, and cloud-ready microservices. Recognized for leadership, performance optimization, and delivering results under challenging deadlines.

## EXPERIENCE

### Virtuous Transactional Analytics Pvt. Ltd., Bangalore, India

#### Senior Software Engineer, Full Stack | OCTOBER 2021 - MAY 2023

- Spearheaded development of pharmaceutical compliance and adverse event monitoring applications, improving discrepancy resolution throughput by 90% and accelerating turnaround times.
- Improved performance of mission-critical APIs by 71% and reduced factory data API load times by 95% through modular caching and analytics.
- Designed and implemented an analytics dashboard for microservices monitoring, enabling proactive detection of performance bottlenecks and reliability issues.
- Resolved application vulnerabilities and compliance gaps, ensuring adherence to industry standards and cloud security requirements.
- Provided technical leadership and mentorship to junior developers, raising overall team productivity and code quality.
- Consistently adapted to new projects with minimal onboarding time, enabling the organization to meet aggressive deadlines.
- Promoted to Project Development Lead for taking on additional responsibilities beyond role expectations.
- Recognized with the OrionStars Award for delivering a high-impact application under tight deadlines and evolving requirements.

#### Software Engineer, Full Stack | MARCH 2020 - SEPTEMBER 2021

- Migrated legacy enterprise applications to cloud-ready frameworks, driving scalability and increasing client retention.
- Developed plug-and-play modular components that accelerated integration with other development teams and reduced delivery times.
- Enhanced microservices performance and stability through real-time production monitoring and optimization.
- Researched and implemented new feature enhancements, improving customer satisfaction and extending client contracts.
- Trained interns on Spring Boot, boosting team throughput within one week of onboarding.

### Philips Healthcare, Bangalore, India

#### Software Developer I | JUNE 2018 - FEBRUARY 2020

- Developed a custom client solution across 3 organizational teams, earning Philips' Take Ownership to Win and Deliver Award.
- Built a centralized compliance management application to streamline information sharing, reducing redundancies in internal documentation.
- Designed solutions to integrate disparate healthcare systems with different profiles, ensuring interoperability and accurate data translation.
- Contributed to "Hospital to Home" telehealth initiatives, enabling doctors to provide remote real-time support for elderly and differently-abled patients.

## PROJECTS

- InterviewMate - AI-Powered Interview Automation: Developed InterviewMate, an AI-driven interview automation platform with a React.js frontend, Node.js backend, and MongoDB database. Integrated REST APIs, authentication, scheduling, and real-time transcription using Whisper, along with HeyGen avatars for candidate interaction. Designed a scalable microservices architecture and implemented a cosine similarity scoring engine to evaluate responses.
- Deep Learning Image Classification: Implemented multiple deep learning architectures (ProGAN, StyleGAN, GJOB-GAN, EfficientNetV2) to classify AI-generated vs. human images using PyTorch and TIMM, achieving 97% accuracy and 0.997 AUC with EfficientNetV2. Evaluated models on accuracy, inference cost, and latency trade-offs, linking results to real-world use cases like fraud detection and content moderation.

## EDUCATION

- MS in Information Science (Machine Learning Emphasis) | University of Arizona | Expected Dec 2025 | GPA: 4.0
- B.Tech in Computer Science & Engineering | National Institute of Technology, Prayagraj | 2018 | CPI: 7.08/10

## TECHNICAL SKILLS

- Frameworks: Angular, SpringBoot, Rhapsody By Orion Health, Apache ActiveMQ & Kafka, Redis
- Languages: JAVA, TypeScript, JavaScript, PHP, C, C++, HTML, CSS, SQL
- Database: MySQL, PostgreSQL, OracleDB