

# AADITYA VIJAYVARGIYA

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## Professional Summary

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Full-stack developer skilled in React, Spring Boot, and NodeJS with hands-on experience building scalable web and mobile applications. Developed solutions impacting 15,000+ users and contributed to AI-driven research. Seeking a software development role to apply and grow my skills in building innovative, user-focused products.

## Technical Skills

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**Programming:** Java, JavaScript, Python, SQL, C

**Development Technologies:** React, Node.js, Express.js, Spring Boot, HTML5/CSS3, Tailwind CSS

**Databases:** PostgreSQL, MongoDB

**Cloud & DevOps:** AWS (EC2), Docker, CI/CD, GitHub Actions

**Development:** REST APIs, Microservices, Agile, Git, SDLC

## Internships

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### Suratec Co., Ltd.

May 2025 – Ongoing

*Mobile Application Developer Intern*

*Nakhon Ratchasima, Thailand*

- Developed cross-platform mobile application using React Native for smart shoe-sole technology, enabling real-time gait analysis for 5000+ patients and healthcare professionals
- Built comprehensive dashboard for doctors and patients to visualize walking data, track rehabilitation progress, and receive personalized walking training recommendations

### Fab Critical Care

June 2024 – July 2024

*Software Developer Intern*

*New Delhi, India*

- Enhanced site performance and implemented new features, leading to the successful launch of 9 major updates.
- Collaborated in a remote team environment, strengthening technical proficiency and cross-functional communication.

## Projects

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**UPES Health Services** | **Frontend** | **Backend** | *React.js, TypeScript, Spring Boot, PostgreSQL*

2024

- Architected full-stack healthcare management system serving 15000+ users with role-based authentication for students, doctors, nursing assistants and administrators
- Implemented automated prescription tracking and real-time inventory management, reducing medicine stockout incidents by 30%
- Developed secure RESTful APIs with Spring Boot and integrated real-time health analytics dashboard, improving clinic operational efficiency by 25%

**Litigate** | **GitHub** | *TypeScript, Tailwind CSS*

February 2025

- Architected responsive Next.js frontend for legal case management, implementing ML-powered document visualization
- Developed advanced search/filter components with TypeScript, reducing user query time by 40%
- Optimized UI performance using Tailwind CSS.

**Optimized Inverted Indexing with PSO** | **GitHub** | *Java, Particle Swarm Optimization, Hash Maps*

January 2025

- Developed an optimized tag-based image retrieval system on Flickr30K dataset using PSO and hash maps.
- Built an inverted index with AND/OR filtering for efficient query ranking.
- Processed data using Python scripts.

## Achievements and Responsibilities

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- Developed mission-critical software for Indian Army during recent Operation, currently deployed across Sikkim region with PAN-India rollout in progress. **Letter** 2024
- Photography Head at OPEN Community, UPES - Led creative team of 15+ members 2023
- Hackathon Finalist - Secured top position among 110+ teams in college-level innovation challenge 2023

Education

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<b>University of Petroleum and Energy Studies</b> <i>B.Tech in Computer Science (Full Stack AI) — GPA: 8.12/10</i>	<b>Expected 2026</b> <i>Dehradun, India</i>
<b>Hansraj Modern Public School</b> <i>Class XII - 78%</i>	<b>2022</b> <i>Jhansi, India</i>
<b>Rani Laxmibai Public School</b> <i>Class X - 87%</i>	<b>2020</b> <i>Jhansi, India</i>

Certifications

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– <a href="#">AWS Cloud Practitioner Essentials.</a>	2024
– <a href="#">AWS Developing Machine Learning Solutions</a>	2025
– <a href="#">AWS Essentials Of Prompt Engineering</a>	2025

Recent Publications

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[Aaditya Vijayvargiya et al., "Development of a GI Cancer Diagnostic Chatbot Using RoBERTa large and the RAG Model"](#) RAG model, Python, RoBERTa large.

[Aaditya Vijayvargiya et al., "Optimized Spoken Query Cross-Lingual Document Retrieval using BM25 and Neural Re-Ranking with AdamW"](#) BM25F, AdamW, neural re-ranking.