

UJWAL AMBALDHAGE

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SUMMARY

Computer Science undergraduate with strong foundations in data structures, algorithms, object-oriented design. Experienced in building and optimizing full-stack applications using Java, Spring Boot, RESTful APIs, and relational databases.

EDUCATION

- Vellore Institute of Technology** **CGPA: 8.15/10.0**
Bachelor of Technology in Computer Science and Engineering
Relevant Courses: Data Structures and Algorithms, Operating Systems, Databases, Computer Networks, Software Engineering, Artificial Intelligence, Machine Learning
Aug 2022 — July 2026

TECHNICAL SKILLS

- Programming Languages:** Java, C++, Python, SQL | Object-Oriented Programming, Data Structures, Algorithms
- Backend & Distributed Systems:** Spring Boot, Microservices, Spring Security, Spring Data JPA, Hibernate, RESTful Web Services, API Design
- Database & Tools:** MySQL, PostgreSQL, Relational Databases, Git, Docker, Maven, IntelliJ IDEA, VS Code, Postman
- Core Competencies:** Problem Solving, Complexity Analysis, Distributed and Multi-tiered Systems, CRUD Operations, Unit Testing, Agile/Scrum

PROJECTS

PetCare Management System | *Spring Boot, Angular, REST API, MySQL*

- Designed a full-stack pet clinic platform supporting scheduling and record management for 1000+ pets, owners, and appointments in a relational database.
- Implemented RESTful APIs with Spring MVC and JPA to perform CRUD operations, reducing manual data entry time by an estimated 60% for end users.
- Optimized MySQL queries and indexing strategies, cutting average response time for key endpoints by roughly 30% during local load testing.

Breast Cancer Diagnosis | *Python, CNN, Spring Boot, Angular, REST API, MySQL*

- Developed an end-to-end healthcare web application that predicts benign vs malignant breast tumors from histopathology images using a convolutional neural network (CNN) trained on a public Kaggle dataset (10k+ images).
- Implemented and trained the image-classification model in Python using TensorFlow/Keras, achieving ~+95% validation accuracy for binary cancer classification through data augmentation and hyperparameter tuning.
- Built a responsive frontend in React/Angular for clinicians to upload images, view prediction confidence scores, and review past reports, reducing manual review time per case in testing scenarios.

EXPERIENCE

- Open Source Contributor** — Apache **June 2025 – Present**
Contributed to Apache repositories by resolving GitHub issues and submitting pull requests that fixed bugs and improved code quality in distributed components. Collaborated with 3–5 maintainers per feature via code reviews and design discussions, increasing test coverage for touched modules by an estimated 15%.

ACHIEVEMENTS

- Solved 500+ data structures and algorithms problems on LeetCode with a 200+ day streak in 2025, strengthening problem-solving speed and improving average acceptance rate across problems.

CERTIFICATIONS

- Oracle Certified Foundations Associate, Java** **Exam 1Z0-811 — Apr 2025**
- Oracle Certified Professional: Java SE 17 Developer** **Exam 1Z0-829 — Aug 2025**

VOLUNTEER EXPERIENCE

- Health-O-Tech Club, VIT Bhopal** — Content Team Member **Aug 2022 — Apr 2023**
Collaborated on content creation for club events, newsletters, and social media to promote health-tech initiatives on campus.
- Telugu Club, VIT Bhopal** — Event Team Member **Aug 2023 — Mar 2024**
Coordinated cultural events and performances, managing logistics and team coordination.

ADDITIONAL INFORMATION

- Languages:** Telugu (Native), Marathi, Hindi, Kannada, English