

PREMVED DHOTE

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Education

Pimpri Chinchwad College of Engineering

Bachelor of Technology in Computer Engineering

Pune, Maharashtra

Nov 2022 – May 2026

Technical Skills

Languages: C, C++, Python, Java, JavaScript, TypeScript, SQL, Bash/Shell

Web, Backend & Database: React.js, Node.js (Express.js), Tailwind CSS, RESTful APIs, GraphQL, MongoDB, MySQL, Redis

DevOps & Cloud: AWS, Docker, Kubernetes, OpenShift, CI/CD, Git, GitHub, Linux

Testing & Methodologies: Jest, Cypress, Agile, Scrum, Code Review, Test-Driven Development

Core CS: Data Structures, Algorithms, OOP, Microservices, Machine Learning, System Design

Professional Experience

Red Hat — *Software Engineering Intern*

January 2026 – Present — *Pune, India*

- Resolved a **Blocker-priority Kueue API bug** (v1beta1→v1beta2 migration) breaking pause/resume for production AI workloads on **RHOAI 3.4**; backported fix to RHOAI 3.3.3, restoring functionality for customers on both supported releases.
- Drove end-to-end **React 17→19 migration** of the **Kubeflow Pipelines UI** on **OpenShift**; upgraded critical dependencies, eliminated deprecated patterns, and unblocked a community-wide `npm start` issue — **7 PRs merged** upstream in **CNCF/Kubeflow**.
- Delivered **Feature Store Phase 2** backend API on **ODH Dashboard** merging Feast namespaces, permission levels, and Notebook CRs into a unified response; unblocked workbench integration on the critical path.

Attestr — *Software Developer Intern*

April 2025 – June 2025 — *Remote*

- Engineered a **Node.js/Express** monitoring platform with **AWS CloudWatch** logging and **React.js** dashboard; implemented **Redis** caching and **MongoDB** analytics achieving sub-200ms queries and reducing incident resolution time by **40%**.

Technical Projects

ApplyBuddy | Chrome Extension, React, Node.js, MongoDB, Redis, Gemini AI

June 2025

- Engineered a **Manifest V3 Chrome Extension** with a custom field-detection algorithm achieving **95%+ accuracy**, reducing job application form-filling time by **80%** across 500+ tested job portals.
- Architected scalable **Node.js/Express** backend with **MongoDB** and **Redis** caching for sub-200ms API responses; integrated **Gmail API** for job posting parsing and AI summarization via **Gemini AI**, processing **1,000+ emails** in testing.

MediScanAI | React, Node.js, MongoDB, Docker, Kubernetes, Gemini AI, OCR

March 2025

- Built full-stack AI platform with **OCR-based prescription parsing** achieving **95%+ extraction accuracy** across 10+ formats; modular architecture enables independent scaling of OCR, auth, and analytics services.
- Deployed on **Docker** and **Kubernetes** with automated **CI/CD pipelines**, achieving **99.5% uptime** and cutting release cycle from days to under **2 hours**; **JWT/Clerk** auth with cross-device sync reducing latency by **25%**.

Achievements & Extracurricular Activities

- Conference Speaker:** Talk accepted at **Open Source Summit India 2026** (Mumbai) — “I Break Things, AI Fixes Them: Building a Self-Healing CI/CD Pipeline”.
- Community Organizer:** Co-organizer of **Kubeflow Commons Hub Pune**; led booth at **DevConf.IN 2026** and organized meetup at Red Hat Pune office.
- Hackathon Winner:** 1st place in Reverse Hackathon and ACM-W Web Development Competition; top 10% across **5+ hackathons**.
- Research Publication:** Co-authored paper accepted by **Springer Nature** at ICTIS 2025 (Bangkok) on OCR-based data extraction.
- Open Source:** **20+ merged PRs** across Red Hat/ODH and upstream CNCF repositories; **Top 10 contributor** at PCCOE.