

Ganesh Patil

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Education

Pimpri Chinchwad University, Pune

Expected August 2028

Bachelor of Technology in Computer science & Engineering

Acharya PU College Of Science, Kalaburgi

2022-2024

Higher Secondary Education (HSE)

Experience:

1. Full Stack Developer Intern - CloudMotiv, Pune, Maharashtra

May 2026- August 2026

- **Architected and developed the frontend** for an Enterprise Resource Planning (ERP) enablement platform using React, Redux Toolkit, Material UI, and Tailwind CSS, focusing on scalable UI components and centralized state management.
- Engineered complex, data-intensive administration modules (including Cost Estimation, RICEW approvals, and Resource Rostering), implementing dynamic data exporting capabilities for Excel and PDF reports using ExcelJS and html2pdf.
- Integrated secure user authentication and session management utilizing AWS Cognito, and orchestrated seamless RESTful API communications via Axios to manage comprehensive organizational, geographic, and project lifecycle data.
- Built a modular AI-powered Sales Development Representative plugin for Claude Desktop with 31+ skills automating end-to-end workflows from lead prospecting to meeting booking.
- Integrated Apollo.io, HubSpot, Calendly, and Microsoft 365 via MCP connectors to automate contact enrichment, CRM syncing, outreach sequences, and calendar scheduling.

2. Open-Source Research (Polytechnique Montréal Canada) - Upwork (Remote)

April – May 2026

- Conducted a study on open-source contribution workflows to identify contributor pain points and improve collaboration efficiency
- Analyzed GitHub issue discussions and evaluated an AI-powered support tool against real contributor practices
- Delivered feedback to improve onboarding, engagement, and community support for new contributors

Projects:

1. Assistant-UI TypeScript/React library for building production-grade AI chat interfaces

[Link](#)

Tech Stack: React, Node.js, Radix UI, Tailwind CSS, Zustand, Zod, Vercel AI SDK, Lang Graph, Turborepo, pnpm, Vitest

- Developed composable React primitives for real-time streaming chat UX with auto-scrolling, accessibility, and Markdown Support.
- Integrated major AI provider with backend frameworks including Vercel AI SDK, Lang Graph, and Mastra.
- Built enterprise chat features with persistence, analytics, voice, files, and human-in-the-loop approvals.

2. Open-Source Organization Recommender (GSoC-Inspired Platform)

[Link](#)

Tech Stack: Node.js, Express, MongoDB, REST APIs, JWT, GitHub.

- Built a MERN-based platform for discovering and ranking open-source organizations using skill-based search.
- Created data-driven dashboards with MongoDB aggregations to visualize trends, growth, and technology usage.
- Implemented secure REST APIs with JWT authentication, admin workflows, and a scalable recommendation system.

3. DSA Playground - Algorithm Visualization Platform

[Link](#)

Tech Stack: React, Vite, Tailwind CSS, Framer Motion, React Router

- Built an interactive web platform that visualizes sorting algorithms and core data structures through step-by-step animations.
- Implemented Bubble, Selection, Insertion, Merge, and Quick Sort with real-time time and space complexity analysis.
- Designed a responsive and smooth user interface using Tailwind CSS and Framer Motion, with modular navigation via **React Router**.

Publications:

X-Domain Federated Meta (XFM): Transformer-Based Cross-Domain Federated Meta-Learning for Unified Medical Oncology and Agricultural Pathology Diagnostics **IM3-2026**

- Co-authored paper (poster presentation, Session IM3-PS-1005) on a three-tier federated meta-learning framework unifying medical oncology and agricultural pathology diagnostics on a shared ViT-B/16 backbone, with differential privacy and secure aggregation for regulatory compliance (GDPR, HIPAA, DPDP Act 2023).
- Link: [ResearchGate](#)

Technical Skills:

Languages: Java, C++, Python, JavaScript, SQL, HTML and CSS

Framework: React, Express.js, Node.js

Tools: GIT, Amazon Web Services(AWS), MySQL, Mongo shell, GitHub Actions (CICD), Basic Docker.

Tech Stack: MERN Stack Web Development, Artificial Intelligence (AI), Basic Devops

Achievements:

Techeon Hackathon: University's Hackathon and secured Runner-Up position.

[Post Link](#)

GDG PUNE: Selected For Google Developers Group Representative Student

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