

Pulkit Agarwal

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SUMMARY

Full-Stack Developer with production-grade experience building web applications and enterprise backend systems. B.Tech in Computer Science Engineering with strong end-to-end development skills across **React.js, Next.js, Vue.js, Node.js/Express.js, and GoLang**. Hands-on experience with **bot automation systems, microservices architecture, AI-powered workflows**, and delivering **enterprise-grade RBAC/OIDC authentication systems**. Proficient in Docker, Kubernetes, and AWS cloud deployments. Passionate about clean architecture, scalable systems, and leveraging AI to solve real-world problems.

Experience

Magna International — Full Stack Developer, Factory Solutions

July 2025 – Present

AMR Bot Automation — Dispatch Service

- Designed and implemented a centralized error handling system within the Dispatch Service microservice, enabling better monitoring and root-cause analysis of autonomous mobile robot (AMR) mission failures.
- Developed and maintained GoLang backend services in a microservices architecture, ensuring modularity and scalability across the bot automation platform.
- Containerized services using Docker and orchestrated deployments with Kubernetes for efficient scaling and resource utilization.

Intralogistics Bot Automation — RBAC via OIDC

- Delivered end-to-end Role-Based Access Control (RBAC) via OIDC — an enterprise-grade security feature — independently gathering requirements from all cross-functional stakeholders across robotics, operations, and security teams.
- Architected a new system from scratch with full authentication and authorization flows, integrating an OIDC identity provider for secure, role-aware access control.
- Developed the Vue.js frontend with protected routes and role-based UI views, tightly coupled to OIDC token claims to enforce access boundaries across user roles.

SmartPick — Forklift & Tugger Bot Automation (Current)

- Built new API endpoints and delivered targeted bug fixes in the GoLang backend, improving system reliability and extending SmartPick's operational capabilities.
- Developed Vue.js frontend components to support SmartPick's operational interface for warehouse and floor management teams.

Tech Stack: GoLang, Vue.js, Docker, Kubernetes, OIDC, RBAC, Microservices

Cadera Infotech Pvt Ltd, Noida - Full-Stack Developer

January 2025- May 2025

[CaderaEdu - Study Abroad Section](#)

- Designed and developed the Study Abroad section of CaderaEdu — built a responsive UI with React.js and Tailwind CSS, RESTful APIs with Node.js/Express.js, and MongoDB for scalable storage of college profiles, fees, rankings, and student records.
- Built an admin panel and CRM-style dashboard to manage college listings, student leads, and role-based content access for non-technical staff.
- Implemented college predictor logic and AI-powered workflows to automate ingestion, enrichment, and analysis of college data — significantly reducing manual effort and improving data accuracy.

Tech Stack: React.js, Node.js, Express.js, MongoDB, Tailwind CSS, OpenAI API, AI Workflows

Foundry Digital, Bengaluru - Software Developer Intern

August 2024 - Dec 2024

- Built a weather system for Optifleet using Amazon Location Services and OpenWeatherMap API; Dockerized and deployed as an AWS ECS service, later re-engineered into the core .NET/TypeScript codebase with Prometheus monitoring.
- Developed a searchable documentation web interface with dynamic JSON-based content management, eliminating developer dependency for content updates.

Tech Stack: *Node.js, .NET, TypeScript, Docker, AWS ECS, Amazon Location Services, Prometheus*

PROJECTS

CareerMentorEdu — *Personal Learning Project* | careermentoredu.com

- Built a full-stack EdTech platform from scratch (for learning purposes) where students can explore college details, admission dates, fee structures, scholarships, and use a college predictor to estimate eligibility.
- Engineered a fully automated admin dashboard: **scrapes college data using Puppeteer, fetches images via Serper, processes and enriches content with Claude AI, generates images using DALL-E 3 when none are available, and auto-switches to fallback OpenAI models when API credits run low — end-to-end with zero manual intervention.**
- Built a **Marketing Studio** inside the admin panel that autonomously generates social media posts (with **DALL-E 3 images**), promotional videos via **HeyGen AI**, ad posters and video creatives for **Meta Ads** campaigns, and schedules and publishes content across platforms.
- Implemented a campaign management system where only budget input and payment are required; the system autonomously creates, manages, and optimises Meta Ads campaigns to generate student leads.
- Integrated a performance analytics layer that analyses which posts and ads perform best, **identifies audience interests**, and produces a forward-looking content and campaign plan — **fully autopilot.**
- Configured **Bunny.net** for image storage and CDN delivery; deployed on **Hostinger VPS** with a Next.js frontend, Node.js backend, MongoDB, and **Redis Cloud** for caching.

Tech Stack: Next.js, Node.js, MongoDB, Redis, Tailwind CSS, Puppeteer, Claude AI, OpenAI API, DALL-E 3, HeyGen, Serper, Meta Ads API, Bunny.net CDN

EDUCATION

2022-2025 BTech(CSE) , **Maharaja Agrasen Institute of Technology, Delhi** (CGPA: 8.96)

2019-2022 Diploma(ME), **MMIT Akbarpur** (Percentage:77.2)

SKILLS

- **Languages:** C/C++, Java, Python, JavaScript, GoLang, C#
- **Frontend:** React.js, Vue.js, React Native, Next.js, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, GoLang, RESTful APIs, Microservices
- **AI & Automation:** OpenAI API, AI Workflow Design, Prompt Engineering, LLM Integration
- **Databases:** MongoDB, PostgreSQL, Redis
- **DevOps & Cloud:** Docker, Kubernetes, AWS (ECS, EC2, S3, Location Services), Vultr
- **Auth & Security:** OIDC, RBAC, OAuth 2.0, JWT, Session Management
- **Tools:** Git, GitHub, GitLab, Jira, Postman, VS Code, IntelliJ IDEA, HubSpot

Achievements

- **Delivered RBAC via OIDC at Magna International — an enterprise-grade security feature typically beyond the scope of junior engineers in MNC environments.**
- Achieved 1st Rank in 5th Semester University Examinations — Maharaja Agrasen Institute of Technology.