

# Agya Gupta

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## Profile

Solution Architect & Full Stack Developer with 1 year of experience delivering enterprise web applications and IT solutions. Skilled in Java (Spring Boot, REST APIs), Node.js/Express, React.js (Redux, Styled Components), and databases (MySQL, MongoDB). Experienced in secure authentication (Spring Security, JWT), API design, and scalable UI development.

Hands-on with Docker, CI/CD (GitHub Actions), AWS deployments, and testing frameworks (Postman) to ensure reliability and performance. Contributed to national-scale projects like Bharat Data Platform, NHAI Datalake, Swachh Bharat Mission, Invest India, and E-Samudra, combining solution architecture with full-stack feature development. Passionate about building secure, maintainable, and user-centric applications aligned with modern best practices.

## Experience

### SOLUTION ARCHITECT – IT INFRASTRUCTURE, DEVOPS & CLOUD COMPUTING | FULL STACK DEVELOPER

*CMS COMPUTERS PVT. LTD. | AUG 2024 – AUG 2025*

- **Full Stack Development:** Designed and implemented user-centric features across frontend, backend, and database layers using React.js, Redux, Styled Components, Spring Boot, Node.js, Express.js, MongoDB, and MySQL.
- **Frontend:** Built reusable React components with modern state management (Redux, Context API), routing, and dynamic dashboards; ensured WCAG accessibility compliance and SEO-friendly architecture.
- **Backend:** Developed and optimized REST APIs (Spring Boot, Node.js/Express) for HRMS, certificate workflows, and e-commerce applications. Implemented secure authentication/authorization with Spring Security & JWT tokens.
- **Databases:** Designed efficient, normalized schemas in MySQL and built scalable NoSQL collections in MongoDB for workflows, documents, and e-commerce transactions.
- **Testing & Code Quality:** Wrote and maintained unit and integration tests with Postman to ensure reliability and maintainability.
- **DevOps & Deployment:** Containerized applications using Docker and configured CI/CD pipelines (GitHub Actions) for automated builds and deployments. Deployed applications to AWS (EC2, Lambda) following secure coding and performance optimization best practices.
- **Collaboration:** Worked closely with product managers, design teams, and senior architects to gather requirements, define technical solutions, and deliver features from planning through production.
- **Mentorship:** Guided interns and junior developers on React.js patterns, REST API development, and secure coding practices.
- **Solution Architecture:** Participated in designing technical & functional architectures for large-scale government platforms including Bharat Data Platform, NHAI Datalake 3.0, Swachh Bharat Mission, Invest India, and CPCB EPR Portal, ensuring scalability, compliance, and interoperability.

## Client Interaction & Stakeholder Engagement

- Engaged with high-profile government and enterprise clients including Digital India Corporation (DIC), National Informatics Centre (NIC), National Highways Authority of India (NHAI), Ministry of Agriculture (MoA), and Ministry of Housing & Urban Affairs (MoHUA), PFMS, PFRDA, CPCB, SFIO, SBM etc.
- Actively participated in requirement discovery workshops to capture business, functional, and technical needs.
- Delivered technical presentations, solution demos, and proof-of-concept sessions to senior stakeholders for large-scale IT infrastructure and digital transformation projects.
- Collaborated with presales teams to prepare comprehensive RFP responses, solution architecture documents, and bid proposals tailored to client objectives.
- Maintained strong client relationships by ensuring solution alignment with compliance, scalability, and operational goals, and integrating post-feedback improvements into proposals.

## Projects

### HUMAN RESOURCE MANAGEMENT SYSTEM (HRMS)

React.js, Spring Boot, MySQL, Styled Components

Developed a role-based HRMS web application with modules for HR, Admin, Manager, and Employee.

- Contributed as a Full Stack Developer in building a role-based HRMS web application for enterprise use, supporting modules for HR, Admin, Manager, and Employee.
- Developed secure authentication and authorization with Spring Security & JWT tokens to enforce role-based access.
- Built and integrated REST APIs for employee management, leave workflows, and performance tracking with MySQL as the data layer.
- Implemented dynamic navigation and dashboards using React.js with Redux for state management and Styled Components for responsive UI.
- Ensured scalability, performance optimization, and compliance with internal security standards.

### WORKFLOW CERTIFICATE APPROVAL & GENERATION SYSTEM

React.js, Node.js, Express.js, MongoDB

Engineered a role-based application to streamline verification and issuance of certificates (income, birth, caste).

- Developed a multi-level approval and verification platform for government certificates (income, caste, birth).
- Designed and implemented a custom form builder allowing officers to create dynamic forms for new certificate types.
- Built hierarchical workflows (Manager → Verifier → Approver) with real-time application tracking and notifications.
- Automated certificate generation in PDF and enabled document uploads with validation and secure storage in MongoDB.
- Enhanced usability by implementing status dashboards and search/filter functionalities for officers and applicants.

## E-COMMERCE

React.js, Node.js, Express.js, MongoDB

Built a full-featured e-commerce application with secure payments and admin dashboard.

- Designed and developed a **full-featured e-commerce application** with secure user authentication, product management, and admin dashboards.
- Integrated **JWT-based authentication and authorization** for both customers and administrators.
- Implemented **product filtering, cart/order workflows**, and automated order confirmation via **Nodemailer**.
- Integrated **Stripe payment gateway** for secure, real-time transactions and order tracking.
- Optimized application for performance and scalability in a microservices-ready environment

## Enterprise/Government Digital Transformation Projects

- **Bharat Data Platform** – Assisted in designing **technical and functional architecture** for a centralized data exchange platform enabling secure, scalable data sharing across ministries. Built integration modules using **Spring Boot APIs** and React-based dashboards.
- **NHAI Datalake 3.0** – Contributed to development of a **data ingestion and analytics system** handling high-volume structured/unstructured data. Developed **REST APIs and ETL workflows**, ensuring secure access with JWT-based authentication.
- **Swachh Bharat Mission (SBM) Portal** – Enhanced the **digital service platform** by developing React-based dashboards and real-time tracking modules for waste management workflows. Integrated APIs with backend services for reporting and analytics.
- **Invest India Portal** – Supported development of **investor-facing modules** with secure sign-up/login, form submissions, and document workflows. Optimized React UI components for faster rendering and improved user engagement.
- **CPCB Common EPR Portal** – Involved in the **design of functional and technical architecture**, focusing on compliance tracking, role-based dashboards, and reporting features.

## Education

**BACHELORS OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING)**

*LOVELY PROFESSIONAL UNIVERSITY | OCT 2020– JULY 2024*

**INTERMEDIATE**

*B.B.L.P.S | APR 2018– APR 2019*

## Technical Skills

- **Cloud Platforms:** AWS (EC2, S3, RDS, Lambda), Azure (basic exposure)

- **DevOps & Automation:** CI/CD (Jenkins, GitHub Actions), Docker, Kubernetes, Terraform, Ansible
- **Programming Languages:** Java, C++, JavaScript (ES6+), SQL
- **Web Development:** React.js, Node.js, Express.js, HTML5, CSS3, Styled Components, Redux, Tailwind CSS
- **Backend & APIs:** RESTful API design, Spring Boot, Mongoose, Express.js
- **Databases:** MongoDB, MySQL
- **Tools & Utilities:** Git, Postman, VS Code, Eclipse
- **Testing & Debugging:** Unit testing, API testing with Postman
- **Infrastructure & Networking:** Virtualization basics, load balancing, monitoring, and security best practices

## Soft Skills

- Problem-solving & critical thinking
- Effective time management
- Communication & collaboration
- Leadership & team coordination
- Adaptability in fast-paced environments
- Analytical and detail-oriented approach

## Certifications

- **AWS Certified Cloud Practitioner** – Amazon Web Services
- **AWS Certified Solutions Architect** – Amazon Web Services
- **React JS** – Great Learning
- **Node.js** – Coursera
- **Data Structures in C++** – Coding Ninjas

## Activities and Interests

- **Coding Projects:** Building full-stack applications and experimenting with new frameworks
- **Sports & Fitness:** Basketball, trekking, and adventure sports
- **Personal Growth:** Reading technology blogs, leadership books, and self-improvement literature
- **Community Engagement:** Participating in hackathons, tech meetups, and open-source contributions
- **Hobbies:** Gardening, creative design, and exploring new cuisines