



AGYA GUPTA

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SUMMARY

Driven and detail-oriented Solution Architect with hands-on expertise in Full Stack Web Development and end-to-end Software Development Life Cycles (SDLC), known for blending technical precision with creativity. I thrive on building intuitive, visually compelling, and high-performance web solutions. Fueled by a deep passion for technology and problem-solving, I am eager to shape innovative digital experiences and deliver impactful solutions as a Full Stack Developer and Solution Architect.

TECHNICAL SKILLS

- Programming languages: Java, C++, JavaScript
- Frontend: React.js, HTML5, CSS3, Tailwind CSS, and Bootstrap
- Backend: Node.js, Express.js, Spring Boot
- Database: MongoDB, MySQL
- APIs: RESTful APIs
- Cloud: AWS (EC2, S3, Lambda, RDS)
- Testing tools: Postman

SOFT SKILLS

- Strong communication
- Effective time management
- Leadership
- Critical thinking and problem solving

PROJECTS

• University management system

Tech stack: C++, MySQL

Developed a console-based university management system in C++ with MySQL integration to handle student enrollment, course allocation, faculty records, and examination data

- ◆ Implemented structured OOP design principles
- ◆ Utilized SQL queries for data persistence, normalization, and relational integrity
- ◆ Included admin and student modules with CRUD operations
- ◆ Integrated exception handling and file I/O for data backup and logs
- ◆ Designed modular architecture for easy maintainability

• Disney+ Hotstar clone

Tech stack: React.js, Redux, Firebase, HTML5, CSS3, and Styled Components

Built a dynamic, responsive streaming platform clone with React and Firebase, mimicking Disney+ Hotstar UI/UX and content experience

- ◆ Used Firebase Authentication for secure user login and signup
- ◆ Integrated Fire store for real-time database functionality
- ◆ Implemented Redux for state management of movies, categories, and user sessions

- ◆ Developed responsive layout using Flexbox/Grid and CSS animations

- ◆ Enabled dynamic routing for movies, series, and user profile pages

- ◆ Used Firebase Hosting for deployment and CDN-based performance boost

• Workflow certificate approval and generation system

Tech stack: React.js, Node.js, Express, MongoDB

Engineered a role-based certificate generation and approval system to streamline workflows for services like income, birth, and caste certificates

- ◆ Built custom form builder integration for dynamic form creation by officers
- ◆ Implemented role-based login (User, Officer, Verifier, Certifier) with JWT auth
- ◆ Enabled hierarchical approval flow for service requests
- ◆ Used Mongoose schemas for structured MongoDB data modeling
- ◆ Built RESTful APIs for request submission, tracking, and document uploads
- ◆ Added PDF generation using libraries like PDFKit for downloadable certificates
- ◆ Implemented status tracking (pending/approved/rejected) with proper logging
- ◆ UI supports file uploads (e.g., Aadhar, PAN) with server-side validation

• **E-commerce website**

Tech stack: React.js, Redux, Node.js, Express.js, MongoDB, Stripe (for payments)
 Developed a full-featured MERN stack e-commerce web application that supports user registration, product listing, shopping cart, checkout, and an admin dashboard

- ◆ Integrated user authentication with JWT and password hashing using bcrypt
- ◆ Built product catalog with dynamic filtering (price, category, brand)
- ◆ Used Redux for cart state, user session, and order tracking
- ◆ Enabled secure Stripe payment gateway integration for real-time transactions
- ◆ Implemented admin panel for inventory, order, and user management
- ◆ Designed RESTful APIs with Express for modular, reusable backend routes
- ◆ Applied MongoDB with Mongoose for schema-based document storage
- ◆ Added pagination, sorting, and search functionality for product listings
- ◆ Built a mobile-responsive UI using CSS Grid/Flexbox and media queries
- ◆ Integrated email confirmation and order receipts using Nodemailer

EXPERIENCE

SOLUTION ARCHITECT, 08/2024 - Current

CMS Computers Pvt. Ltd., New Delhi, India

Led solution architecture and technical strategy for key government and enterprise clients across sectors such as NIC, DIC, NHAI, the Ministry of Agriculture, and SFIO. Played a pivotal role in crafting technical responses for EOIs, RFIs, RFPs, and bids.

Key Responsibilities:

- Designed end-to-end technical solutions across domains like e-governance, workflow systems, and smart city platforms, using cloud-native and modular architectures (AWS/Azure/.NET/MERN-based).
- Created detailed technical proposals, capability decks, and system architecture diagrams tailored to project goals and government mandates.
- Led technical presentations and walkthroughs during client meetings and steering committee reviews to align proposed architectures with compliance and scalability expectations.
- Collaborated cross-functionally with sales, delivery, engineering, and leadership teams to convert leads into opportunities through architectural thought leadership.
- Analyzed government tenders and drafted solution blueprints, integration workflows, and cost-effective infrastructure strategies, with a focus on security.
- Drafted compliance matrices, deployment plans, and scalability models to align with client requirements and service-level agreements.

EDUCATION AND TRAINING

Lovely Professional University, Phagwara, Punjab, 05/2024

BTech: Computer Science

B.B.L.P.S., Bareilly, 03/2019

Intermediate

CERTIFICATIONS

- Cloud Practitioner, AWS
- Solution architect, AWS
- Data structures in C++, coding ninjas
- React JS, great learning
- Node.js, Coursera

HOBBIES

- Trekking
- Adventure sports
- Reading
- Gardening