

AARAV AGARWAL

Software Development Engineer

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Summary

Aspiring Software Development Engineer with strong problem-solving skills (300+ LeetCode problems) and full-stack web development experience. Proficient in Java, TypeScript, JavaScript, and cloud technologies like AWS and Docker. Built scalable applications with real-world impact and led cross-functional teams. Known for ownership, adaptability, and delivering high-impact solutions.

Education

Vellore Institute of Technology Bachelor of Technology in Computer Science Pursuing	Bhopal, India 2023 - Present
Swaraj India Public School Class X & XII Percentage: 92.6% & 93.75%	Kanpur, India 2021 - 2023

Skills

Web Development • React.js • Next.js • HTML • TailwindCSS • Node.js • Express.js • REST APIs

Languages • TypeScript • JavaScript • Python • Java • C++

Database Management • MongoDB • Mongoose • MySQL • Prisma • Drizzle • PostgreSQL

Tools & Technologies • Docker • FFmpeg • AWS EC2 • AWS S3 • AWS Fargate • AWS Lambda • AWS IAM • AWS ECS • AWS ECR • AWS Image Builder • AWS RDS • AWS Aurora • AWS DynamoDB • Git • GitHub • Socket.io • WebRTC

Soft Skills • Problem Solving • Team Collaboration • Communication Skills • Leadership • Initiative • Adaptability • Time Management • Critical Thinking • Attention to Detail • Self-motivation • Ownership Mindset

Other Skills • HLS Streaming • Authentication • Gen AI Integration • Responsive Design • AI & ML

Projects

Buy Me A Cookie - Donation Platform

- Built a full-stack donation website enabling secure transactions, user analytics, and regional deployment. Stack: React, Node.js, MongoDB, Razor Pay.
- Enabled seamless donations with payment integration.
- Reached 500+ monthly users in the deployed region.

STREAMFLIX - Streaming Platform

- Developed a group streaming platform with subscription plans, parental controls, and HLS-based streaming.
- Led a team of 5 developers, implemented AWS S3 + FFmpeg for storage and encoding.
- Scaled to 2000+ monthly users.

Chat App - Real-time Messaging

- Built a real-time chat application using Socket.IO, enabling instant messaging, image sharing, and user presence tracking.
- Developed a scalable Node.js backend and responsive frontend using React and TailwindCSS.
- Capable of handling 100+ concurrent users with minimal resource usage.

Achievements & DSA

Solved 300+ LeetCode Problems

Practiced 150 Easy, 150 Medium, and 10 Hard problems. Strong in Arrays, Strings, DP, Trees, and Graphs.

Cloud-Native Deployment

Led development of streaming and donation platforms deployed using AWS EC2, S3, Lambda, Fargate, ECS, and RDS with Docker integration, impacting 2000+ and 500+ users respectively.

Team Collaboration & Leadership

Coordinated with 5+ team members on live projects with version control and task delegation.