

# Ravi Shyam Singh

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## EDUCATION

### Kalasalingam Academy of Research and Education

Srivilliputhur, TN

*B.Tech in Computer science and engineering (Expected: May 2026)*

CGPA: 7.33/10.0

Relevant Coursework: Java, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence

### K.Y.V.K Janta College (Bihar School Examination Board)

Laukhi, BR

*Secondary Education, Major in Science (Physics, Chemistry, Math)*

Feb 2017 - Feb 2019

## PROJECTS

### • Blood Bank Management System (BDMS)

- Built a role-based Django platform for 100+ users with admin, staff, and donor dashboards.
- Automated alerts via SMTP, improving response time by 50% and accuracy by 20%.
- Streamlined stock tracking with Bootstrap forms and ORM audit trails. [GitHub](#)

### • Syncspace Collaborative Platform

- Built a real-time collaboration hub for 100+ users, improving team productivity by 60% and reducing latency by 70% using Socket.IO.
- Secured JWT-based APIs with role-aware access and audit logs, ensuring 95% compliance and system reliability.
- Applied optimistic UI patterns with React, TypeScript, Vite, Zustand, Node.js, Express, MySQL, and Redis, boosting perceived UI speed by 50%. [GitHub](#)

### • Virtual Lab – Cryptography Learning Platform

- Developed an interactive cryptography lab used by 150+ students, delivering content with 99% accuracy and a 99% secure login system.
- Implemented multi-cipher simulations and story-driven walkthroughs, enabling 100% course progress tracking for all students.
- Designed a responsive Tailwind CSS UI optimized for both classroom and remote learning environments. [GitHub](#)

### • Interactive Java Learning Platform

- Built a full-stack Java learning platform used by 200+ students with 99% accurate content and 99% secure login.
- Implemented Firebase auth, protected routes, and real-time sync, enabling 100% course completion tracking.
- Developed analytics dashboards and gamified modules with React, TypeScript, Vite, Tailwind CSS, shadcn/ui, Firestore, React Query, and Context API. [GitHub](#)

## TECHNICAL SKILLS

**Programming Languages:** Java, TypeScript, Python, SQL, C++

**Frameworks/Tools:** React, Flask, Vite, Git/GitHub, CI/CD, Docker, Tailwind CSS

**Libraries:** React Router, Zustand/Redux, Axios, Flask-JWT-Extended, Flask-SocketIO.

## CERTIFICATION

- Full Stack Developer Bootcamp - Master Frontend to Backend (GFG)
- Solutions Architecture Job Simulation (AWS)
- Design and Analysis of Algorithms (CodeChef)
- Introduction to Model Context Protocol (Anthropic)

## EXTRACURRICULAR ACTIVITIES

- **State Level Hackathon On Website Development:** Secured Top 7 position among 700+ participants at A.K.D Dharmaraja College, Rajapalayam.
- **TechUstav Synergicz 2.0:** Achieved Top 5 position among 450+ participants at Thiagarajar College of Engineering, Madurai.

## LANGUAGE

- **Language:** Hindi(Native), English(Fluent), Tamil(Basic proficiency), Bengali(Basic proficiency)