# S. PURUSHOTHAM

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## PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on experience building responsive, full-stack web applications using React, Node.js, and modern cloud tools. Skilled at translating real-world problems into clean, scalable, and well-tested software, with a strong foundation in data structures, algorithms, and database design.

## EDUCATION

**Parul University, Vadodara, Gujarat**
B.Tech in Computer Science and Engineering | 2023 - 2027 (Expected) | CGPA: 6.92 / 10

**Royal Composite PU College, Chintamani, Karnataka**
Intermediate Education (12th Grade), 2023 | Percentage: 70.33%

## TECHNICAL SKILLS

**Languages:** C, Java, Python, JavaScript, TypeScript

**Frameworks & Libraries:** React, Node.js, Express.js, HTML, CSS

**Databases:** MongoDB, SQL, PostgreSQL

**Tools & Platforms:** Git, GitHub, Docker, VS Code

## PROJECTS

### MITRAM - AI-Powered Student Success Assistant

*React, TypeScript, Tailwind CSS, FastAPI, PostgreSQL, Docker, OpenAI API*

- Built a full-stack platform supporting academic planning, productivity tracking, resume analysis, and personalized skill roadmaps.
- Designed a responsive dashboard with React, TypeScript, and Tailwind CSS for an intuitive student experience.
- Developed a FastAPI backend covering authentication, an AI chatbot, syllabus analysis, timetable generation, and admin analytics.
- Added multilingual voice interaction via Web Speech APIs, supporting speech-to-text and text-to-speech.
- Deployed the application with Docker and PostgreSQL for reliable, scalable database management.

### Smart Farm Assistant

*IoT, Predictive Modeling, Cloud Computing*

- Created an agricultural support system combining IoT sensors, predictive modeling, and cloud infrastructure to improve farm efficiency.
- Delivered real-time dashboards tracking soil moisture, temperature, humidity, and crop health.
- Automated irrigation scheduling and pest detection alerts, cutting resource waste and labor costs.

## CERTIFICATIONS & JOB SIMULATIONS

**AWS Certified Cloud Practitioner - Amazon Web Services**
Validated core cloud knowledge, including AWS services, architecture best practices, and infrastructure management.

**Walmart Global Tech Job Simulation - Forage**
Completed a virtual simulation covering enterprise-scale architecture and full-stack engineering workflows.

## ACHIEVEMENTS

- Solved 150+ Data Structures and Algorithms problems, sharpening core problem-solving skills.
- Competed in a hackathon at Parul University, collaborating on a team project under time constraints.