

# Godwin Samraj G

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## Summary

CS undergraduate with 2 internships delivering production-ready full-stack and ML systems. Shipped 4 projects spanning AI grading, real-time proctoring, and IoT-edge deployments. Comfortable across the stack — from **React** frontends to **FastAPI** backends and **BERT**-based NLP models.

## Education

**Kamaraj College of Engineering and Technology**

*B.E. in Computer Science and Engineering — CGPA: 8.1 / 10.0*

**Keren Schools**

*Higher Secondary Education — 70%*

*Virudhunagar, India*

*2023 – 2027*

*Madurai, India*

*2018 – 2023*

## Technical Skills

|                    |                                   |                  |                              |
|--------------------|-----------------------------------|------------------|------------------------------|
| <b>Languages</b>   | Python, JavaScript, SQL, HTML/CSS | <b>Frontend</b>  | React, Next.js, Tailwind CSS |
| <b>Backend</b>     | Node.js, Express.js, FastAPI      | <b>Databases</b> | PostgreSQL, MongoDB          |
| <b>ML &amp; AI</b> | BERT, NLP, OpenCV                 | <b>Tools</b>     | Git, Figma, Swagger, VS Code |

## Experience

**Pentagon Garments**

*Software Developer Intern*

*Dec 2025 – Feb 2026*

*Virudhunagar, India*

- Built a production-ready security verification & real-time monitoring system using **Next.js** and **FastAPI**, reducing server response time by **35%**.

**Panith Innovations**

*Machine Learning Intern*

*May 2024 – Jun 2024*

*Bangalore, India*

- Engineered predictive ML models and automated data pipelines in **Python**, improving forecast accuracy by **23%**.

## Projects

**Mr.Strict — Automated Assignment & Exam Evaluator** | *Python, BERT, NLP, FastAPI, Docker*

- **Problem:** Manual grading is slow, inconsistent, and not scalable for large student batches.
- **Solution:** Built an AI grading system using **BERT**, achieving **92% accuracy**, cutting grading time by **85%**, and supporting **500 concurrent submissions** via Docker.

**Autonomous Exam Monitoring System** | *Python, OpenCV, Computer Vision, Jetson Nano*

- **Problem:** Traditional exam proctoring requires 1 invigilator per 30 students and is prone to fatigue errors.
- **Solution:** Built a real-time AI proctoring system on **Jetson Nano** at **30 FPS**, detecting facial, eye, and audio anomalies — cutting monitoring workload by **70%** and flagging incidents with **confidence scores**.

**Hospital Token Booking System** | *MERN Stack, JWT, MongoDB*

- **Problem:** Manual token queues cause average patient wait times of 45+ minutes in outpatient departments.
- **Solution:** Built a full-stack booking platform with role-based access and real-time admin dashboard; optimized MongoDB queries reducing page load by **60%** and queue resolution time by **40%**.

**Security Rounds Verifier** | *FastAPI, Next.js, PostgreSQL, JWT*

- **Problem:** Paper-based security logs are easily falsified and offer no real-time visibility into round completion.
- **Solution:** Developed a verifiable digital rounds system with JWT auth and audit logging; optimized **PostgreSQL** queries cutting API response time by **40%** across **3 security tiers**.

## Achievements

-  Earned the **Pull Shark** GitHub Achievement **twice** — [github.com/users/Samrajg/achievements/pull-shark](https://github.com/users/Samrajg/achievements/pull-shark)
- Secured **second place** in college-level public speaking contest.
- FIDE-rated chess player — ranked **15th** at the London Chess Tournament (2018), demonstrating strategic thinking under pressure.