

# SOWMIYA P

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## CAREER OBJECTIVE

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To secure a responsible job in Software Development to fully utilize my training and skills, while making a significant contribution to the success of the company exceeding expectations and long-term prosperity.

## EDUCATION

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### Velammal Engineering College, Chennai

- B.E. Computer Science Engineering

CGPA: 8.1

(2021-2025)

### Sethu Bhaskara Matric Higher Secondary School, Chennai

- HSC – Percentage: 91.3%
- SSLC – Percentage: 90.8%

Board: State

(2020-2021)

Board: State

(2018-2019)

## PROFESSIONAL EXPERIENCE

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### Software Developer Intern (Full-Time, On-Site | Paid )

Sep 2024 – Apr 2025

#### Power Of N Techstudio Pvt Ltd

- Developed a scalable HR & payroll platform integrating employee data, financial transactions, and reporting features leading to a 30% reduction in manual data entry and payroll process.
- Engineered secure contact import/export modules with bulk upload capability, real-time duplicate prevention, validation and rollback-safe transactions saving 60% of manual processing time.
- Built a flexible PDF export engine handling 2–40+ column layouts with auto-scaling and page optimization, reducing report generation time and increasing client readability scores.
- Built a SARIMA-based forecasting engine to predict monthly-to-annual expenses, increasing financial planning accuracy and enabling proactive budget decisions.
- Implemented secure document storage & migration flows (Drive ↔ Bucket) with integrity checks and metadata tracking.

### Exercise Data Scientist Intern | Amply Innovations Pvt. Ltd. - (Remote) India

May – July 2024

- Engineered real-time posture detection pipeline by integrating IMU, Kinect, and VICON sensor data, enhancing physiotherapy accuracy and user feedback responsiveness.
- Streamlined preprocessing achieving 100% model-readiness and reducing preprocessing lag by 60%.
- Leveraged PCA to reduce IMU dataset dimensionality by 60%, retaining 95% data variance and subsequently improving real-time posture monitoring system accuracy
- Benchmarked motion capture accuracy by comparing marker data from Kinect and VICON systems, contributing to sensor selection strategy for physiotherapy tools.

### Web Development Internship | Technohacks Edutech - (Remote) India

Oct - Nov 2023

- Deployed a Responsive Portfolio to showcase my skills and experience
- Designed & created a food delivery Web Application, listing items with ratings and reviews.

### Team leader | Technical Support | Business Development | GaoTek Inc. – USA

Jun - Oct 2023

- Spearheaded a high-performing team of 10 interns, 30% increase in team productivity within 2 months.
- Providing guidance and support for daily tasks and goals reducing response times by 50%.
- Conducted in-depth market research to inform strategic decision-making.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, C

**Web Development:** HTML, CSS, JavaScript, Django

**Database & Backend:** PostgreSQL

**Version Control & Tools:** Git, GitHub

**Soft Skills:** Leadership, Communication, Time Management

## PROJECTS

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### AI-Powered Car Defect Detection System using YOLOv7 and CNN

- Developed an automated system to detect surface-level car defects (scratches, dents, paint issues) using YOLOv7 and CNN for accurate defect classification — reducing manual inspection effort by 70%.
- Processed and trained custom Roboflow datasets, increasing precision and recall rates by over 85%, and improving F1-score to ensure reliable model performance.
- Deployed a Flask-based web app for image upload and instant defect feedback, streamlining inspection and decreasing inspection time per vehicle by 50%.

### Innovative Web-Based Tool Enhances Teen Mental Health Screening using Machine Learning:

**Scopus ID:** 59173500500

- [\*SSRG International Journal of Electronics and Communication Engineering, Vol. 11 Issue 5, 2024\*](#)
- Built an ML-based mental health assessment tool achieving 97% prediction accuracy, enabling early-stage detection and tailored support for teenagers.
- Executed data preprocessing, model training, and fine-tuning by leveraging Python libraries

### Digital Bus Pass System using IOT:

- Designed an IoT-enabled RFID bus pass system to scan, validate, and update digital travel credentials in under 5 seconds, reducing boarding time by 40%.
- Implemented real-time data syncing and instant SMS alerts, improving system response and enhancing commuter experience.
- **Overall college award in TANCAM Women's Hackathon at REC, Chennai.**

## CERTIFICATES & OTHERS

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| • IOT Workshop – 5 Days                    | • Cybersecurity & Privacy – NPTEL |
| • MERN stack – 3 Day Internship            | • Machine Learning - NPTEL        |
| • FullStack Development – 5 Day Internship | • Linux fundamentals – HackTheBox |