

# Hemachandran Somanathan

✉ hemachandransriram@gmail.com

☎ 7397174003

🌐 LinkedIn

🐙 GitHub

## Profile

Aspiring Software Engineer seeking a position within a dynamic industry to foster self-exploration and stay abreast of emerging technologies. Committed to contributing my best efforts to the company while continuously expanding my knowledge through hard work and dedication to learning.

## Education

**Btech ECE**, SASTRA DEEMED TO BE UNIVERSITY  
6.18 CGPA ( Aggregate till semester VI )

2021 Oct – present

**Higher Secondary Certificate**, Maharishi Vidya Mandir ( CBSE )  
81%

**Secondary School Certificate**, Maharishi Vidya Mandir ( CBSE )  
59.6%

## Skills

### Computer Networks Fundamentals

### Technologies/Frameworks

- Django
- ReactJS
- Git
- SQL
- Swing

### Languages:

- Python
- Java
- Java Script
- Html
- CSS

### Familiarity With AWS services

- EC2
- S3

## Projects

### Smart Headlight Control System Using Computer Vision

- Developed an advanced headlight control system utilizing the YOLO algorithm for real-time detection of oncoming vehicle headlights.
- Integrated the system with Raspberry Pi 5 to automatically adjust vehicle high beam to low beam.
- Enhanced road safety and minimized glare for oncoming traffic with the intelligent headlight adjustment module.
- Future scope: Infusing AI to bring in accurate light adjustments based on the oncoming vehicle and Integrating the model with real-time automobile.

## NotesApp

- Developed notes-taking app using Django and React.
- Developed a backend to handle note data and user authentication securely
- Integrated the React frontend with the Django backend for seamless communication and a smooth user experience.

## Professional Experience

### Tenneco Pvt Ltd, Internship

- Gained hands-on exposure to Human-Machine Interface (HMI) systems during a one-month internship.
- Acquired practical knowledge in the design, development, and implementation of HMI solutions.
- Developed skills in interacting with and optimizing user interfaces for enhanced user experience and efficiency.

## Leadership experience

### Cultural Vice Head, Theta Technical Fest, Leadership Experience

- Served as Vice Head of cultural committee in Techno Management fest "THETA" conducted by SASTRA deemed to be University.
- Played a key role in tailoring a power-packed three days cultural showcase by managing several talents on ground.
- Organized the event with quick mitigation steps for the encountered operational risks.

### Workshop Organizer

- Coordinated and facilitated workshops such as "Industry Readiness" in March 2023, enhancing participants' professional preparedness.
- Organized workshops on "IoT using Raspberry Pi" (October 2023) and "Recent Trends in Technology and Evolution in Placement" (February 2024), providing insights and hands-on learning in emerging technologies.

## Certificates

- Business Analyst Job Simulation Certification by Deloitte Australia [↗](#)
- Programming for Everybody (Python), University of Michigan on Coursera [↗](#)

## Interests

- |                                 |             |
|---------------------------------|-------------|
| • Basketball                    | • Excercise |
| • New age financial investments | • Gearhead  |