# Hemachandran Somanathan

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in 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*  2021 Oct – present
6.18 CGPA  ( Aggregate till semester VI )

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

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

## Skills

**Computer Networks Fundamentals**

**Technologies/Frameworks**
- Django
- Git
- SQL
- Swing

**Languages:**
- Python
- Java
- Html

**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 an 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 ⬡
- Programing for Everybody (Python), University of Michigan on Coursera ⬡

## Interests

- Basketball
- New age financial investments
- Excersie
- Gearhead