# Shantanu Ramanujapuram

# [Github](https://www.github.com/shanTen) | shantanuramanujapuram@gmail.com | Chennai, Tamilnadu

# Summary

**As of May 2024:** I am a student studying electronics and communications engineering. Experienced hobbyist programmer since 2018 having worked with electronics and web development technologies.

Currently pursuing learning machine learning and analog electronics.

# Projects

[**Hydrocarbonator**](https://github.com/ShanTen/hydrocarbonator)**:** (Personal project) An interpreter to name single chain organic compounds. Proof of concept for application of computer theory in chemical nomenclature.

[**CC\_parser**](https://github.com/ShanTen/CoordinateCompoundNaming)**:** (Personal project) – An interpreter to parse and analyze coordinate compounds.

[**Tree Parser**](https://github.com/ShanTen/Tree-Parser)**:** (Personal project) – A Markup language parser based on hierarchical ASCII directory trees.

[**Paradox Accommodation Client**](https://github.com/ShanTen/ParadoxAccomodation)**:** A mobile client for IITM BS degree’s annual culturals fest [Paradox](https://www.iitmparadox.org/). Primarily used by volunteers to check in lodgers and track supplied items.

[**Paradox Student Registration Client**](https://github.com/ShanTen/ParadoxSR)**:** A mobile client built for Paradox. Primarily used by volunteers to check to perform gate check In and marking event attendance.

**Smart Meter Suite**: A collection of [APIs](https://github.com/ShanTen/SmartMeterAPI) and mobile clients [[1]](https://github.com/ShanTen/SmartMeterClient-Admin) [[2]](https://github.com/ShanTen/SmartMeterClient-Household) [[3]](https://github.com/ShanTen/RelayApp) built for an IoT Smart Meter internship project at [IGCAR](https://www.igcar.gov.in/).

[**STM32 Drivers**](https://github.com/ShanTen/Nucleo-Board-Drivers): A collection of drivers written in C for STM’s Nucleo board.

[**Tarang Bot**](https://github.com/ShanTen/TarangBot): Discord bot written to handle registrations and roles for The PSBB Millennium's Cultural Fest Tarang 2021. Handled over 250+ roles automatically and was self-hosted on a raspberry pi for maximum uptime.

# Skills

**WebDev:** React Web, React Native, MongoDB, REST APIs in Express, Flask, Typescript

**Electronics:** Micropython, Arduino, embedded driver development on STM32

**Programming:** JavaScript, Python, C#, MS-batch, and PowerShell Automation

**Others:** ffmpeg, git, ImageMagick, shell scripting, SQL, OpenCV, mediapipe, LTSpice

# Education

## The PSBB Millennium School Gerugambakkam | Chennai, Tamilnadu

**Computer Science and Mathematics Stream** | 2007-2022 | **AISSE: 465/500** | ***AISSCE*: 449/500**

**Achievements:** Quiz Club Secretary 2019-2021, Debate Club Vice President 2020-21, Debate Club President 2021-22

## SRM Institute of Science and Technology Ramapuram | Chennai, Tamilnadu

**Electronics and Communications Engineering** | 2022-Present| **CGPA: 9.57\***

**Achievements:** SRM Project Day 2024 - Runner Up, Winner BIT Project Expo (April 2024)

* **IIT Madras BS Degree | Remote**

**Diploma in Data Science** | 2022–Present \* | **CGPA: 7.2\***