

Shantanu Ramanujapuram

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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: (Personal project) An interpreter to name single chain organic compounds. Proof of concept for application of computer theory in chemical nomenclature.

CC parser: (Personal project) – An interpreter to parse and analyze coordinate compounds.

Tree Parser: (Personal project) – A Markup language parser based on hierarchical ASCII directory trees.

Paradox Accommodation Client: A mobile client for IITM BS degree's annual cultural's fest [Paradox](#). Primarily used by volunteers to check in lodgers and track supplied items.

Paradox Student Registration Client: 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](#) and mobile clients [\[1\]](#) [\[2\]](#) [\[3\]](#) built for an IoT Smart Meter internship project at IGCAR.

STM32 Drivers: A collection of drivers written in C for STM's Nucleo board.

Tarang Bot: 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** | **A/SSCE: 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***