

EDUCATION

- **2020 - 2024 | IIT Madras:** B.S in Programming and Data Science
- **2020 - 2024 | VIT Chennai:** B.Tech in Computer Science and Engineering

SKILLS

- ✓ **Web tech:** Protocols, security, development, deployment and performance. In particular, I am proficient with the Node.js ecosystem.
- ✓ **Low-level:** Operating systems, compilers, computer architecture and maintenance.
- ✓ **Frameworks:** Express.js, SvelteKit, Next.js, Flask, Rocket.rs.
- ✓ **Database:** SQL, NoSQL, RDBMS Internals.
- ✓ **Scripting:** Linux(Python, Bash) and Windows (PowerShell, AutoHotkey).
- ✓ **Languages of note:** TypeScript, Rust, F#
- ✓ **Other:** Great knowledge of JavaScript and v8 internals. Good knowledge of cryptography. Moderately skilled in data science

EXPERIENCE

- **Intern, RISE Lab, IIT Madras: May 2022 - Present**
 - (future) work on the SHAKTI microprocessor.
 - Worked with quantum and classical logic synthesis on a relevant cryptography project.
- **Intern, BMC Software, Jan 2023 - Present**
 - Working on a python application with a CI pipeline

ACHIEVEMENTS

- ✓ **Hack-o-pitch, IIT Madras:** Won third place by building a decentralized backend-as-a-service platform on top of IPFS.
- ✓ **HC-Educates, HackClub, VIT Chennai:** Won 2nd place by building an Ed-Tech product to manage LMS workflows better.

PROJECTS

- **Jam bot:** A well-tested discord music bot with advanced features. [Publication](#)
- **Nand 2 Tetris:** An entire computer, from CPU architecture to an OO language. [Repository](#)
- **Mood-based music recommendation:** Detects your mood from your webcam, and recommends to you a curated playlist. [Repository](#)
- **My website:** My personal website, blog and resume builder santhanam.dev
- **Toolbox:** A large collection of tools and scripts I have written. [Github Gists](#)
- **NPM packages:** A collection of NPM packages I have published. npmjs.com

HOBBIES

I like Football, Cricket, Chess, Harry Potter and Music. I learn the Violin and like to sing.