

Surya Narayanan C

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Professional Summary

Dedicated Software engineer with strong **full-stack** development skills and experience in **secure application development**. Proficient in **multiple programming languages** and frameworks with a focus on implementing **secure coding practices**. Passionate about cryptography research and developing **efficient solutions** for real-world problems.

Education

Shiv Nadar University Chennai

B.Tech in CSE (Cyber Security) 3rd Year

Aug 2023 – Present

CGPA: 8.57 [↗](#)

Vidya Mandir Senior Secondary School

Computer Science

2023

12th boards: 94%

Experience

Software Development Intern *Shopify, FastAPI, React, NextJS*

May 2025 – Present [↗](#)

Deorio Designs (stipend internship)

- Converted Figma Designs to pixel-perfect and accessible UI for **Donnager AI** reducing review changes by **60%**.
- Used **Shopify theme store** for premium children's clothing brand **GINGI** [↗](#), **reducing bounce rates by 10%** and abandoned checkouts by **15%**.

Software Development Intern *Shopify, FastAPI, React*

July 2025 – Present [↗](#)

Maheswari Electrical Agency (stipend internship)

- Developing a **product context-aware chatbot** for Shopify stores to enhance customer experience and potentially reduce bounce rate by **10-15%**
- Implementing intelligent product recommendations with page-wise context, increasing **user interaction by 15%**

Publications

Enhancing Image Encryption through Optimized Key Generation: An Analysis Using the Emperor Penguin Optimizer

Feb 2025

Surya Narayanan C, Sivapriya Venkataswarar, Dr.U Padmavathi

Presented at International Conference on Innovative Trends In Information Technology'25 (IIIT Kottayam). Publisher: IEEE

Projects

ScheduleMaker - Timetable Generator and Editor *(TypeScript, Next.js, Node.js)*

Project Link [↗](#)

- Streamlined college timetable creation with automated **back-end timetable generator**, **reducing** generation time by **90%**.
- Developed algorithm balancing **faculty** availability, class timing preferences, **lab slots**, and **locking features**.

CacheSimulator - Memory System Performance Analysis Tool *(Svelte, Vite)*

Project Link [↗](#)

- Created interactive web-based simulation of **L1 and L2 cache systems** with **victim cache** implementation
- Visualized **cache hits**, **misses**, and **replacement algorithms** for memory hierarchy performance analysis

SwiftPass - Secure Hostel Management Application *(Flutter, NeonDB, Railway)*

In Development

- Developing **Flutter-based app** digitizing Outpass Management system for college hostels
- Implementing **role-based access control** for staff and students. Potential userbase: **150+ staff, 2000+ students** with **30% reduction** in issuance time

Technical Skills

- Programming Languages:** TypeScript, Python, Golang, C/C++, Dart
- Web Development:** React, NextJS, GoFibre, FastAPI, ExpressJS, HTML5, CSS3, REST API, Figma
- DevOps & Tools:** Docker, Git
- Databases:** PostgreSQL, SQLite, MongoDB, Firebase

Certifications

- Intro to NeuroEvolution of Augmenting Topologies** *(March 2023)* [↗](#)
- Programming in Java** *(March 2025)* [↗](#)
- Introduction to Modern C++** *(March 2025)* [↗](#)

Awards & Hackathons

Finalist – Envithon 2024, CodeSangaram 2025, DevsHouse 2025

February 2024

Participated - Proglint's Computer Vision 2K23 (Semi-finalist), Smart India Hackathon 2024, Kochi Hackathon 2025, SNU-Hacks 2025

2023–2025

Point of Contact of Isai (college music club)

Volunteer in EditaCTF2.0 in February 2025