

Prasanna Ezhilmurugan

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Education

Vellore Institute of Technology, Chennai - 9.24 CGPA <i>B.Tech Computer Science and Engineering(Artificial Intelligence and Robotics)</i>	08/2023 – present Chennai, India
Jawahar Higher Secondary School, Neyveli <i>12th grade - 88.8%</i>	2023 Neyveli, India
Jawahar Higher Secondary School, Neyveli <i>10th grade - 93%</i>	2021 Neyveli, India

Skills

Typescript | C++ | C | SDL | SFML | CMake | Make | GDB | Valgrind | Linux |
Numpy | Pandas | OpenCV | scikit-learn | Python | Pytorch | Git | Shell Scripting |
Javascript | Next.js | ReactJS | Tailwind CSS | SQL | Go | Jupyter Notebook | VIM

Projects

Chip-8 Emulator [🔗](#)

C, SDL2

Developed a CHIP-8 emulator in C, implementing opcode decoding, graphics rendering, and keyboard input to run retro games on a virtual 8-bit machine.

BF Interpreter [🔗](#)

C

Developed a BrainF interpreter in C, implementing file parsing, string parsing and executing the instructions with necessary data structure.

Face Recognition System [🔗](#)

Python, OpenCV, ESP32

Project created using Python and OpenCV optimized to run on the ESP32 MCU to efficiently and accurately recognize faces.

FinBooks [🔗](#)

Next.js, Typescript, Tailwind Css, Node.js, PostgreSQL, Vercel

Finbooks is a finance management platform designed for tracking loans, managing transactions and monitoring repayments. Built with Next.js, it offers simple, secure and efficient way to handle personal and small business finance.

MNIST Neural Network [🔗](#)

Python, Numpy, Pandas, Matplotlib

Neural Network model for classification on MNIST digits implemented from scratch with high accuracy for familiarizing myself with underlying neural network model and matrix operations.

Mini-DB

C++

A tiny x86 architecture Linux debugger, created breakpoint handling and GDB like REPL system to familiarizing myself with intricacies of the x86 architecture and POSIX conventions

Technical Club

CYSCOM

Developer

09/2023 – present

Chennai, India

- Contributed to designing and developing websites.
- Organizing ZYPHER capture the flag event.