GUNASEKAR

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SUMMARY

Dedicated Computer Science student with a strong foundation in system programming, compiler engineering, and deep learning.

EDUCATION

Bachelor's in Computer Science and Engineering
Panimalar College of Engineering | Chennai, India
Jul 2022 - Apr 2026 | **7 CGPA**

PROJECTS

MOJONET ⬀   Mojo, Deep Learning, MLIR, LLVM

- A deep learning/machine learning framework similar to PyTorch developed entirely in Mojo.
- It allows programmers to use an optimized framework for heterogeneous computation.

STDTYPE ⬀   C++, MLIR, LLVM, Compiler Framework, Intermediate representation

- An MLIR dialect unifies types and their operations.
- Enables compiler engineers to access and manipulate various types and collections.

SHELL INTELLIGENCE ⬀   C, C++, Deep Learning, Linux

- A large language model (LLM) integrated terminal for Linux.
- Allows Linux users to interact conversationally with the operating system.

MCCL ⬀   CUDA, Mojo, GPU, MLIR

- A collective CUDA-compatible library for GPU access in Mojo.
- Enables programmers to write GPU CUDA kernels and execute them in Mojo.

WORK EXPERIENCE

Intership -VCODEZ ⬀ Jan 2025 - Mar 2025

- Collaborated with the development team to design and implement software solutions.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Mojo
Frameworks and Tools: LLVM, MLIR, CUDA
Software Development: Agile, Waterfall
Others: GitHub

EXTRACURRICULAR

IEEE coordinator
- Competed in the IEEE Extreme 24-hour coding event and got 1st place at the campus level.
- Assisted with fellow IEEE coordinators in organizing and running campus-level events.

LANGUAGES

- **English**
- **German**
- **Tamil**
- **Telugu**