

!!! info ""

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![Image](assets/credits.png)<br>
_Active Maintainers/Creators_
!!! warning ""
```

The project is maintained by two core developers who each own a unique layer of the system.

=== "Soham Metha"



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> **Role**: Lead Developer <br>
> **Modules Owned**: VIREX VM, SASM Assembler, VS Code Extension, Docs

!!! tip "info"

    - Designed the **VIREX** Virtual Machine architecture.
    - Developed the **SASM Assembler** and complete instruction set.
    - Built tooling: AST visualizer, debug tools, and VS Code syntax
extension.
    - Authored all core documentation.
    - Maintains the monorepo, versioning, and long-term roadmap.

!!! quote

    *"VIREX is a hands-on way to explore systems programming, not just
study it."* <br>

[]
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-VIREX-success)]() [![]
(https://img.shields.io/badge/Project-SASM-success)]()

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=== "Omkar Jagtap"



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> **Role**: Compiler Engineer - ORIN <br>
> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable
Implementation

!!! tip "info"

    - Designing and implementing **ORIN**, the high-level language
compiler targeting SASM
    - Handles the full compilation pipeline: parsing, IR generation, and
SASM output
    - Exploring advanced features like expression optimization and
static analysis

!!! quote

    > *"ORIN aims to make high-level programming compatible with low-
level control."*

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[![]](https://img.shields.io/badge/Language-C-blue)]
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()
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!!! danger ""
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[Soham-Metha/virex](https://github.com/Soham-Metha/virex)
<br>[GitHub Issues](https://github.com/Soham-Metha/virex/issues)
<br>[GitHub Discussions](https://github.com/Soham-Metha/virex/discussions)
<br>[CONTRIBUTING.md](../CONTRIBUTING.md)
<br>[roadmap](roadmap.md)
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👉 Contact & Community

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Use the links above to explore the repository, report issues, join discussions, contribute, or follow the project's development roadmap.

## 🙏 Acknowledgments

We gratefully acknowledge the creators and communities that inspired and supported this project:

- **Educational Inspiration:**

[Tsoding](#), [Dr. Jonas Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for their deep dives into compilers, virtual machines, and systems programming.

- **Ecosystem & Tools:**

The open-source communities around the **JVM**, and **language tooling** landscape, for providing extensible blueprints and motivation.

- **Early Support:**

Friends, testers, and curious peers who gave feedback during the early stages of development.

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*VIREX is open. Hackable. Minimal. Built for builders.*