

!!! info inline end ""

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<figure markdown="span">
  ![Image](assets/credits.png)
  <figcaption>Active Maintainers/Creators</figcaption>
</figure>
The project is maintained by two core developers who each own a unique
layer of the system.
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Virtual Machine **VIREX** Assembly Language **SASM** Compiler **ORIN** Editor Support **VS Code** License **GPL3**

=== "Soham Metha"



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```
> **Role**: Lead Developer <br>
> **Modules Owned**: VIREX VM, SASM Assembler, VS Code Extension, Docs
<br>
> [![]](https://img.shields.io/badge/Language-C-blue)
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]]
(https://img.shields.io/badge/Project-VIREX-success)]() [![]]
(https://img.shields.io/badge/Project-SASM-success)]()

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

> "VIREX is a hands-on way to explore systems programming, not just study it."
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=== "Omkar Jagtap"



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(https://en.wikipedia.org/wiki/C\_\(programming\_language\)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()

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

- 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

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

We'd like to thank:

- [Tsoding](#), [Dr Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for foundational resources.
- The open-source ecosystems around JVM, and language tooling.
- Friends and testers who offered feedback during early development stages.

🤝 Contact & Community

- GitHub: github.com/sohammetha/virex
 - Interested in contributing? Check out [CONTRIBUTING.md](#)
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VIREX is open. Hackable. Minimal. Built for builders.
