

!!! 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://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.
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- 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.  
  
> "VIREX is a hands-on way to explore systems programming, not just  
study it."
```

=== "Omkar Jagtap"



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[[[](<https://img.shields.io/badge/Language-C-blue>)]
([https://en.wikipedia.org/wiki/C_\(programming_language\)](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

> **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."**

🙏 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.
