

!!! info inline end ""

```
<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.
```

=== "Soham Metha"



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style="border-radius: 50%;padding: 4px;"} }

```
> 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://en.wikipedia.org/wiki/C_(programming_language))) []() []()

!!! quote ""

=== "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."\*

[]  
([https://en.wikipedia.org/wiki/C\\_\(programming\\_language\)](https://en.wikipedia.org/wiki/C_(programming_language))) []() []()

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📞 Contact & Community

📁 GitHub Repository:

- [Soham-Metha/virex](https://github.com/Soham-Metha/virex)  
 Want to contribute?
- See the [CONTRIBUTING.md](../CONTRIBUTING.md) guide  
 Found a bug?
- Report it via [GitHub Issues](https://github.com/Soham-Metha/virex/issues)
-  Ask questions or share ideas on [GitHub Discussions](https://github.com/Soham-Metha/virex/discussions)
-  See the [project roadmap](roadmap.md)

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

## 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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